^{133}Cs(n,γ) E=thermal 1987Bo24

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2004

^{134}Cs Levels

The level scheme is that of 1987Bo24 and based on coincidence data. Others: 1975Al21, 1978Al09.

E(level)	J^π†	$T_{1/2}$	E(level)	J^π†
0.0	4^+	2.0648 y *10*	624.0074 *29*	$(5)^-$
11.2442 *18*	5^+		643.9642 *28*	4^-
60.0297 *13*	$(3)^+$		684.504 *5*	$(2,3)^-$
138.7441 *26*	8^-	2.912 h *2*	688.626 *4*	$(4)^+$
173.7942 *16*	$(2,3)^+$		693.838 *5*	$(2,3,4^+)$
176.4044 *16*	$3^-,4^-$	49.7 ns *8*	701.9999 *28*	$3^-,4^-$
176.6400 *26*	$(1)^+$		715.823 *4*	$(2,3)^-$
190.2614 *18*	$(3)^+$		741.277 *4*	$(3^+,4)$
193.6162 *20*	4^-		752.7029 *30*	4^-
197.7817 *17*	$(2)^+$		801.253 *6*	$(1^+,2,3,4^+)$
209.5458 *18*	$(4,5)^+$		821.605 *8*	$(2,3,4^+)$
234.3341 *18*	$(3)^+$		831.684 *4*	$4^-,5^-$
257.1075 *24*	6^-	12.3 ns *11*	835.714 *5*	$(2^+,3,4,5^+)$
267.6618 *25*	$4^-,5^-$		839.813 *4*	$3^-,4^-$
271.3489 *16*	$(2,3)^+$		880.349 *4*	$(3^+,4^+)$
290.9669 *21*	$(2)^+$		912.608 *4*	$3^+,4^+$
344.3594 *25*	7^-		916.175 *4*	$3^-,4^-$
377.1021 *20*	4^+		937.630 *5*	$(4)^-$
382.9834 *24*	6^-		941.343 *15*	(4^-)
434.1746 *30*	$6^-,7^-$		948.138 *5*	$2^-,3^-,4^-$
450.2381 *23*	5^-		976.310 *4*	$3^-,4^-$
451.4250 *18*	$(3)^+$		991.882 *5*	$4^-,5^-$
454.0876 *24*	$3^+,4^+$		1043.523 *8*	$(4)^+$
483.6574 *30*	$(3,4)^-$		1088.423 *5*	$(3,4)^-$
502.8411 *30*	$(3,4)^+$		1094.553 *4*	$(2)^-$
519.3217 *26*	$(3,4)^+$		1100.334 *5*	$(2,3)^-$
539.657 *6*	$(3,4,5)^+$		1142.861 *5*	$(2,3,4)^-$
570.8266 *27*	4^-		1162.508 *5*	$(3^-,4)$
579.131 *4*	$(2,3)^+$		1238.872 *7*	5^-
584.1804 *26*	$(2,3)^+$		1254.198 *5*	$3^-,4^-$
613.021 *5*	$(4,5)^-$		1266.168 *6*	$(3^-,4)$
621.997 *5*	$(2,3,4,5)^+$		6891.381 *12*	$3^+,4^+$‡

† From Adopted Levels, unless otherwise noted.
‡ For s-wave capture on $J^\pi=7/2^+$ target.

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs)

E_γ †	I_γ ‡ b	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α c	$I_{(\gamma+ce)}$ b	Comments
(7.52)		197.7817	(2)$^+$	190.2614	(3)$^+$				21 *12*	$I_{(\gamma+ce)}$: from the intensity balance (1987Bo24).
11.242# *7*		11.2442	5$^+$	0.0	4$^+$	M1+E2	0.016 *1*	90.6 *9*	254 *15*	α(L)=71.2 *7*; α(M)=14.56 *15* Mult.,δ: from ^{134}Cs IT decay (2.912 h). $I_{(\gamma+ce)}$: from the intensity balance (1987Bo34).
17.217# *6*	7.6 *3*	193.6162	4$^-$	176.4044	3$^-$,4$^-$	M1		23.39		α(L)=18.41; α(M)=3.74 Mult.: α(L)exp>16 (1975Al21).
21.146# *7*	1.43 *10*	197.7817	(2)$^+$	176.6400	(1)$^+$	M1		12.67		α(L)=9.98; α(M)=2.029 Mult.: from the intensity balance for 176.64 level (1987Bo24).
23.991# *7*	1.08 *7*	197.7817	(2)$^+$	173.7942	(2,3)$^+$	M1		8.70		α(L)=6.84; α(M)=1.394 Mult.: α(exp)=26 *10* from I(γ+ce)=30 *10* (1987Bo24).
37.04# *3*	0.37 *3*	271.3489	(2,3)$^+$	234.3341	(3)$^+$	M1		16.43		α(K)=14.03; α(L)=1.887; α(M)=0.384 Mult.: α(exp)=26 *9* from I(γ+ce)=10 *3* (1987Bo24).
38.624# *2*	5.5 *2*	382.9834	6$^-$	344.3594	7$^-$	M1+E2	<0.03	14.50		α(K)=12.33; α(L)=1.707; α(M)=0.348
44.076# *4*	0.46 *4*	234.3341	(3)$^+$	190.2614	(3)$^+$	M1+E2	<0.04	9.88		α(K)=8.40; α(L)=1.165; α(M)=0.2378 (L2+L3)/L1<0.13.
50.702# *4*	0.74 *12*	752.7029	4$^-$	701.9999	3$^-$,4$^-$	M1+E2	<0.07	6.60		α(K)=5.59; α(L)=0.802; α(M)=0.1643
60.0316 *26*	148 *30*	60.0297	(3)$^+$	0.0	4$^+$	M1+E2	<0.03	3.98		α(K)=3.40; α(L)=0.460; α(M)=0.0938 α(K)exp=3.3 *7*,K:L1:L2:L3=8.5 *4*:1.0:0.066 *7*:0.016 *1*.
63.490 *4*	0.44 *12*	257.1075	6$^-$	193.6162	4$^-$	E2		9.73		α(K)=4.45; α(L)=4.16; α(M)=0.901
64.624 *5*	0.23 *13*	688.626	(4)$^+$	624.0074	(5)$^-$	[E1]		0.737		
67.2555 *28*	18 *3*	450.2381	5$^-$	382.9834	6$^-$	M1+E2	<0.05	2.87		α(K)=2.447; α(L)=0.334; α(M)=0.0681
73.563 *4*	2.0 *4*	271.3489	(2,3)$^+$	197.7817	(2)$^+$	M1(+E2)		2.21		
74.049 *4*	23 *5*	267.6618	4$^-$,5$^-$	193.6162	4$^-$	M1+E2	0.104 *11*	2.201 *8*		α(K)=1.866 *3*; α(L)=0.267 *5*; α(M)=0.0545 *10*
76.986 *6*	0.51 *17*	454.0876	3$^+$,4$^+$	377.1021	4$^+$	M1(+E2)		1.935		
78.978 *6*	1.2 *4*	831.684	4$^-$,5$^-$	752.7029	4$^-$	M1		1.797		α(K)=1.539; α(L)=0.2049; α(M)=0.0417
81.086 *5*	0.43 *11*	271.3489	(2,3)$^+$	190.2614	(3)$^+$	[M1]		1.665		α(K)=1.426; α(L)=0.1897; α(M)=0.0386
87.2529 *25*	12.4 *25*	344.3594	7$^-$	257.1075	6$^-$	M1+E2	0.3 *3*	1.5 *4*		α(K)=1.21 *13*; α(L)=0.22 *15*; α(M)=0.05 *4*
93.1870 *27*	5.6 *15*	290.9669	(2)$^+$	197.7817	(2)$^+$	M1(+E2)		1.115		
94.948 *3*	0.39 *12*	271.3489	(2,3)$^+$	176.4044	3$^-$,4$^-$					
97.5540 *29*	1.23 *25*	271.3489	(2,3)$^+$	173.7942	(2,3)$^+$	M1,E2		1.7 *6*		
108.744 *5*	0.29 *7*	752.7029	4$^-$	643.9642	4$^-$	[M1,E2]		1.0 *4*		
111.344d *6*	0.18d *5*	912.608	3$^+$,4$^+$	801.253	(1$^+$,2,3,4$^+$)					

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α[c]	Comments
111.344[d] *6*	0.18[d] *5*	1254.198	3⁻,4⁻	1142.861	(2,3,4)⁻				
[x]112.896 *5*	0.19 *3*								
113.7640 *28*	62 *8*	173.7942	(2,3)⁺	60.0297	(3)⁺	M1+E2	<0.1	0.638	α(K)=0.544; α(L)=0.0742; α(M)=0.01510
114.328 *3*	3.7 *5*	290.9669	(2)⁺	176.6400	(1)⁺	M1(+E2)		0.623	
115.3232 *27*	0.59 *8*	382.9834	6⁻	267.6618	4⁻,5⁻	M1,E2		0.87 *26*	
116.3755 *26*	195 *27*	176.4044	3⁻,4⁻	60.0297	(3)⁺	E1		0.1440	α(K)=0.1235; α(L)=0.01638; α(M)=0.00330
116.612 *4*	22 *4*	176.6400	(1)⁺	60.0297	(3)⁺	E2		1.094	α(K)=0.755; α(L)=0.267; α(M)=0.0571
117.1711 *28*	3.0 *5*	290.9669	(2)⁺	173.7942	(2,3)⁺	M1(+E2)		0.582	
118.367 *4*	16.2 *21*	257.1075	6⁻	138.7441	8⁻	E2		1.037	α(K)=0.720; α(L)=0.250; α(M)=0.0535
120.591 *9*	33 *4*	570.8266	4⁻	450.2381	5⁻	M1+E2	<0.3	0.572	α(K)=0.478; α(L)=0.0750; α(M)=0.01544
124.034 *15*	0.19 *9*	1100.334	(2,3)⁻	976.310	3⁻,4⁻				
125.745 *5*	0.41 *6*	502.8411	(3,4)⁺	377.1021	4⁺	[M1,E2]		0.66 *18*	
127.5021 *28*	14.2 *13*	138.7441	8⁻	11.2442	5⁺	E3		6.89	α(K)=2.77; α(L)=3.22; α(M)=0.719
127.710 *4*	1.00 *18*	579.131	(2,3)⁺	451.4250	(3)⁺	[M1,E2]		0.63 *17*	
130.236 *7*	89 *10*	190.2614	(3)⁺	60.0297	(3)⁺	M1+E2	<0.13	0.437	α(K)=0.373; α(L)=0.0510; α(M)=0.01040 K:L1:L2:L3=5.32 *16*:1.0:0.07 *2*:<0.036.
131.169 *5*	0.50 *6*	701.9999	3⁻,4⁻	570.8266	4⁻	M1(+E2)		0.423	
[x]131.569[&] *12*	0.10 *3*								
[x]131.661[&] *7*	0.11 *4*								
132.7554 *26*	0.96 *18*	584.1804	(2,3)⁺	451.4250	(3)⁺	M1(+E2)		0.409	
133.5871 *26*	1.66 *23*	193.6162	4⁻	60.0297	(3)⁺	E1		0.0982	α(K)=0.0843; α(L)=0.01107; α(M)=0.00223
136.497 *4*	0.41 *5*	976.310	3⁻,4⁻	839.813	3⁻,4⁻	[M1,E2]		0.50 *13*	
137.7538 *29*	1.28 *15*	197.7817	(2)⁺	60.0297	(3)⁺	M1(+E2)		0.369	
138.733 *11*	0.0044 *5*	138.7441	8⁻	0.0	4⁺	M4		131.8	α(K)=73.5; α(L)=44.8; α(M)=10.52
142.218 *5*	0.23 *4*	519.3217	(3,4)⁺	377.1021	4⁺	[M1,E2]		0.44 *10*	
142.769 *3*	4.0 *5*	377.1021	4⁺	234.3341	(3)⁺	M1(+E2)		0.334	
146.415 *4*	0.56 *6*	1094.553	(2)⁻	948.138	2⁻,3⁻,4⁻				
149.511 *4*	1.63 *15*	209.5458	(4,5)⁺	60.0297	(3)⁺	M1,E2		0.38 *8*	
[x]150.773 *4*	1.01 *10*								
[x]153.482 *5*	0.24 *3*								
[x]153.806[&] *7*	0.12 *7*								
[x]154.042[&] *6*	0.12 *4*								
159.644 *15*	0.10 *2*	1254.198	3⁻,4⁻	1094.553	(2)⁻				
[x]163.758[&] *7*	0.13 *3*								
[x]164.627 *6*	0.16 *3*								
167.556 *4*	0.38 *5*	377.1021	4⁺	209.5458	(4,5)⁺	M1,E2		0.26 *5*	
173.7935 *24*	0.63 *6*	173.7942	(2,3)⁺	0.0	4⁺	M1,E2		0.23 *4*	
174.3061 *23*	16.5 *15*	234.3341	(3)⁺	60.0297	(3)⁺	M1+E2	0.7 *2*	0.217 *10*	α(K)=0.178 *6*; α(L)=0.031 *4*; α(M)=0.0064 *8*
176.4047 *24*	90 *7*	176.4044	3⁻,4⁻	0.0	4⁺	E1		0.0455	α(K)=0.0392; α(L)=0.00505; α(M)=0.00102
[x]176.994 *6*	0.38 *7*								
177.060 *5*	0.61 *12*	434.1746	6⁻,7⁻	257.1075	6⁻				
[x]177.972 *4*	0.37 *4*								

$^{134}_{55}Cs_{79}$-3

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α [c]	Comments
178.349 *4*	0.61 *9*	880.349	$(3^+,4^+)$	701.9999	$3^-,4^-$				
179.0189 *24*	10.1 *10*	190.2614	$(3)^+$	11.2442	5^+	E2		0.2445	α(K)=0.1881; α(L)=0.0446; α(M)=0.00940 Mult.: M1,E2 from conversion data. ΔJ rules out M1.
180.0783 *24*	3.0 *3*	451.4250	$(3)^+$	271.3489	$(2,3)^+$	M1,E2		0.21 *3*	
182.375 *4*	0.24 *6*	193.6162	4^-	11.2442	5^+				
[x]184.221 *8*	0.15 *4*								
[x]185.557 *5*	0.19 *3*								
186.847 *4*	8.9 *13*	377.1021	4^+	190.2614	$(3)^+$	M1,E2		0.19 *3*	
187.722[d] *5*	0.19[d] *3*	831.684	$4^-,5^-$	643.9642	4^-				
187.722[d] *5*	0.19[d] *3*	1100.334	$(2,3)^-$	912.608	$3^+,4^+$				
[x]188.413[&] *19*	0.09 *4*								
189.8320 *26*	2.1 *4*	624.0074	$(5)^-$	434.1746	$6^-,7^-$	M1,E2		0.176 *24*	
190.261 *4*	0.64 *9*	190.2614	$(3)^+$	0.0	4^+	M1,E2		0.14 *5*	
[x]191.120[&] *23*	0.13 *4*								
[x]191.765[&] *23*	0.19 *5*								
193.729 *4*	1.01 *13*	643.9642	4^-	450.2381	5^-	M1,E2		0.165 *21*	
194.724 *3*	1.35 *15*	1142.861	$(2,3,4)^-$	948.138	$2^-,3^-,4^-$	M1,E2		0.163 *21*	
197.7775 *27*	1.55 *25*	197.7817	$(2)^+$	0.0	4^+	E2		0.1738	α(K)=0.1359; α(L)=0.0300; α(M)=0.00630 Mult.: M1,E2 from conversion data. ΔJ rules out M1.
[x]197.878[&] *20*	0.17 *7*								
198.2993 *26*	37 *6*	209.5458	$(4,5)^+$	11.2442	5^+	M1+E2	0.47 *4*	0.1418 *10*	α(K)=0.1193 *5*; α(L)=0.0179 *4*; α(M)=0.00367 *8*
200.847 *4*	3.8 *9*	684.504	$(2,3)^-$	483.6574	$(3,4)^-$	M1,E2		0.148 *17*	
205.608 *6*	54 *8*	344.3594	7^-	138.7441	8^-	M1+E2		0.137 *15*	
207.663 *11*	2.2 *4*	831.684	$4^-,5^-$	624.0074	$(5)^-$	M1,E2		0.133 *14*	
209.549 *4*	2.7 *7*	209.5458	$(4,5)^+$	0.0	4^+	M1,E2		0.130 *13*	
211.3188 *25*	8.1 *16*	271.3489	$(2,3)^+$	60.0297	$(3)^+$	M1,E2		0.126 *13*	
[x]211.910 *4*	0.45 *7*								
[x]212.521[&] *14*	0.12 *4*								
[x]214.428 *16*	0.15 *2*								
217.092 *11*	0.24 *11*	451.4250	$(3)^+$	234.3341	$(3)^+$	M1,E2		0.116 *11*	
218.340 *4*	10.4 *18*	701.9999	$3^-,4^-$	483.6574	$(3,4)^-$	M1,E2		0.114 *10*	
219.756 *5*	13.3 *19*	454.0876	$3^+,4^+$	234.3341	$(3)^+$	M1,E2		0.112 *10*	
221.967 *8*	0.19 *4*	741.277	$(3^+,4)$	519.3217	$(3,4)^+$				
[x]222.567 *20*	0.12 *3*								
223.080 *10*	0.22 *3*	234.3341	$(3)^+$	11.2442	5^+				
[x]223.637[&] *29*	0.13 *3*								
223.96 *3*	0.14 *3*	912.608	$3^+,4^+$	688.626	$(4)^+$				
224.881 *6*	0.27 *4*	1162.508	$(3^-,4)$	937.630	$(4)^-$				
[x]230.921[&] *6*	0.28 *7*								
[x]231.437[&] *14*	0.20 *3*								
232.165 *3*	4.9 *8*	715.823	$(2,3)^-$	483.6574	$(3,4)^-$	M1,E2		0.095 *6*	

$^{134}_{55}Cs_{79}$-4

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.	α [c]	Comments
234.332 *7*	40 *5*	234.3341	$(3)^+$	0.0	4^+	M1,E2	0.092 *6*	
235.036 *9*	0.34 *10*	976.310	3^-,4^-	741.277	$(3^+,4)$			
x235.700 *17*	0.29 *5*							
237.194 *7*	0.29 *5*	688.626	$(4)^+$	451.4250	$(3)^+$			
x240.555 *11*	0.21 *4*							
240.687 *4*	0.62 *4*	450.2381	5^-	209.5458	$(4,5)^+$			
x241.844 *9*	0.29 *4*							
242.461 *13*	0.23 *3*	821.605	$(2,3,4^+)$	579.131	$(2,3)^+$			
244.542 *4*	1.11 *7*	454.0876	3^+,4^+	209.5458	$(4,5)^+$			
244.912 *12*	0.32 *8*	621.997	$(2,3,4,5)^+$	377.1021	4^+			
245.861 *4*	23.1 *7*	257.1075	6^-	11.2442	5^+	E1		
x251.392 *4*	1.48 *8*							
253.642 *5*	0.86 *6*	451.4250	$(3)^+$	197.7817	$(2)^+$			
x254.258 *8*	0.33 *4*							
254.740 *4*	1.84 *9*	1094.553	$(2)^-$	839.813	3^-,4^-	M1,E2		
x255.379 *11*	0.29 *4*							
256.626 *4*	6.63 *20*	450.2381	5^-	193.6162	4^-	M1,E2		
x257.419 *10*	0.16 *4*							
257.820 *9*	0.58 *5*	451.4250	$(3)^+$	193.6162	4^-			
260.517 *9*	0.55 *7*	1100.334	$(2,3)^-$	839.813	3^-,4^-			
261.164 *4*	13.0 *4*	451.4250	$(3)^+$	190.2614	$(3)^+$	M1,E2		
x262.761 *9*	0.32 *5*							
263.826 *4*	2.86 *11*	454.0876	3^+,4^+	190.2614	$(3)^+$	M1,E2		
x266.628 *7*	0.33 *4*							
x267.444 *5*	0.49 *5*							
268.987 *5*	6.92 *21*	839.813	3^-,4^-	570.8266	4^-	M1,E2		
271.349 *4*	4.39 *13*	271.3489	$(2,3)^+$	0.0	4^+	M1,E2		
272.211 *4*	2.16 *9*	916.175	3^-,4^-	643.9642	4^-	M1,E2		
x274.409 *15*	0.19 *3*							
274.805 *18*	0.17 *5*	451.4250	$(3)^+$	176.6400	$(1)^+$			
275.001 *9*	0.37 *6*	451.4250	$(3)^+$	176.4044	3^-,4^-			
277.632 *4*	2.28 *7*	451.4250	$(3)^+$	173.7942	$(2,3)^+$	M1,E2		
x279.477 *17*	0.36 *6*					(M1,E2)		
279.647 *4*	2.14 *9*	624.0074	$(5)^-$	344.3594	7^-	E2		Mult.: M1,E2 from conversion data. ΔJ rules out M1.
x282.81 *4*	0.20 *3*							
284.990 *4*	1.50 *5*	519.3217	$(3,4)^+$	234.3341	$(3)^+$	M1,E2		
x287.19 *4*	0.24 *4*							
289.855[d] *6*	0.50[d] *3*	741.277	$(3^+,4)$	451.4250	$(3)^+$			
289.855[d] *6*	0.50[d] *3*	1266.168	$(3^-,4)$	976.310	3^-,4^-			
290.612 *5*	0.67 *4*	912.608	3^+,4^+	621.997	$(2,3,4,5)^+$			
293.293 *5*	5.08 *10*	502.8411	$(3,4)^+$	209.5458	$(4,5)^+$	M1,E2		
293.666 *9*	0.70 *5*	937.630	$(4)^-$	643.9642	4^-	(M1,E2)		
x294.919 *8*	0.54 *5*							

$^{134}_{55}Cs_{79}$-5

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ †	I_γ ‡b	E_i(level)	J_i^π	E_f	J_f^π	Mult.	δ	α c	Comments
295.433 *4*	5.85 *18*	434.1746	6^-,7^-	138.7441	8^-	M1,E2			
296.165 *8*	0.58 *4*	880.349	$(3^+,4^+)$	584.1804	$(2,3)^+$				
x297.42& *5*	0.18 *6*								
x297.78& *4*	0.20 *6*								
302.457 *6*	3.08 *10*	752.7029	4^-	450.2381	5^-	M1,E2			
x302.77 *4*	0.20 *5*								
303.163 *5*	3.79 *8*	570.8266	4^-	267.6618	4^-,5^-	M1,E2			
305.062 *6*	2.20 *18*	502.8411	$(3,4)^+$	197.7817	$(2)^+$	M1,E2			
306.090 *27*	0.51 *9*	1254.198	3^-,4^-	948.138	2^-,3^-,4^-				
x306.922 *27*	1.1 *3*								
307.250 *5*	43.4 *9*	483.6574	$(3,4)^-$	176.4044	3^-,4^-	M1+E2	0.6 *4*	0.0417 *4*	α(K)=0.0355 *8*; α(L)=0.0050 *3*; α(M)=0.00102 *6*
307.751 *26*	0.57 *13*	579.131	$(2,3)^+$	271.3489	$(2,3)^+$				
x309.414 *21*	0.36 *6*								
309.775 *5*	7.37 *15*	519.3217	$(3,4)^+$	209.5458	$(4,5)^+$	M1,E2			
312.574 *17*	0.25 *4*	502.8411	$(3,4)^+$	190.2614	$(3)^+$				
x313.518 *14*	0.16 *4*								
x315.417 *5*	1.60 *5*					M1,E2			
x316.069 *12*	0.43 *4*								
316.395 *6*	0.96 *5*	835.714	$(2^+,3,4,5^+)$	519.3217	$(3,4)^+$				
317.070 *5*	4.57 *9*	377.1021	4^+	60.0297	$(3)^+$	M1,E2			
x319.30& *4*	0.25 *9*								
x321.58& *5*	0.27 *8*								
322.696d *6*	0.89d *4*	1162.508	$(3^-,4)$	839.813	3^-,4^-				
322.696d *6*	0.89d *4*	1238.872	5^-	916.175	3^-,4^-				
x326.355 *11*	0.38 *5*								
x327.413 *20*	0.23 *4*								
329.02 *5*	1.89 *8*	519.3217	$(3,4)^+$	190.2614	$(3)^+$				
x334.999 *14*	0.33 *3*								
x336.088 *6*	1.15 *5*								
336.489 *7*	0.81 *4*	570.8266	4^-	234.3341	$(3)^+$				
338.017 *7*	1.12 *5*	1254.198	3^-,4^-	916.175	3^-,4^-	M1,E2			
341.573 *8*	0.50 *3*	1254.198	3^-,4^-	912.608	3^+,4^+				
x342.95& *6*	0.34 *10*								
344.812 *10*	0.49 *4*	579.131	$(2,3)^+$	234.3341	$(3)^+$				
345.358 *5*	1.90 *6*	613.021	$(4,5)^-$	267.6618	4^-,5^-	M1,E2			
347.154de *5*	2.09d *6*	801.253	$(1^+,2,3,4^+)$	454.0876	3^+,4^+	E1			
347.154d *5*	2.09d *6*	1088.423	$(3,4)^-$	741.277	$(3^+,4)$	E1			α(K)=0.00648; α(L)=0.00082; α(M)=0.00017
x347.829 *25*	0.41 *5*								
349.845 *6*	1.18 *23*	584.1804	$(2,3)^+$	234.3341	$(3)^+$				
x352.93 *8*	0.20 *3*								
356.157 *16*	6.7 *8*	839.813	3^-,4^-	483.6574	$(3,4)^-$	M1,E2			

$^{134}_{55}Cs_{79}$-6

γ(^{134}Cs) (continued)

E_γ †	I_γ ‡ b	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
356.349 *6*	9.5 *13*	624.0074	$(5)^-$	267.6618	$4^-,5^-$	M1,E2	
361.282 d *13*	0.53 d *6*	570.8266	4^-	209.5458	$(4,5)^+$		
361.282 de *13*	0.53 d *6*	1162.508	$(3^-,4)$	801.253	$(1^+,2,3,4^+)$		
364.171 *8*	0.56 *9*	741.277	$(3^+,4)$	377.1021	4^+		
365.855 d *7*	3.0 d *5*	377.1021	4^+	11.2442	5^+	M1,E2	
365.855 d *7*	3.0 d *5*	539.657	$(3,4,5)^+$	173.7942	$(2,3)^+$	M1,E2	
366.818 *9*	0.48 *8*	937.630	$(4)^-$	570.8266	4^-		
x367.181 *18*	0.26 *5*						
367.867 *7*	4.7 *7*	991.882	$4^-,5^-$	624.0074	$(5)^-$	M1,E2	
371.736 *5*	4.2 *5*	382.9834	6^-	11.2442	5^+	E1	
376.295 *6*	1.4 *2*	643.9642	4^-	267.6618	$4^-,5^-$		
x377.129 *7*	1.50 *9*						
377.304 *28*	8.7 *7*	948.138	$2^-,3^-,4^-$	570.8266	4^-	M1,E2	
380.40 d *10*	0.19 d *6*	570.8266	4^-	190.2614	$(3)^+$		
380.40 de *10*	0.19 d *6*	831.684	$4^-,5^-$	451.4250	$(3)^+$		
x381.377 *7*	1.55 *20*						
381.624 *17*	0.58 *11*	835.714	$(2^+,3,4,5^+)$	454.0876	$3^+,4^+$		
384.291 *8*	1.10 *17*	835.714	$(2^+,3,4,5^+)$	451.4250	$(3)^+$		
386.43 d *3*	0.33 d *11*	584.1804	$(2,3)^+$	197.7817	$(2)^+$		
386.43 d *3*	0.33 d *11*	1088.423	$(3,4)^-$	701.9999	$3^-,4^-$		
386.855 *8*	5.3 *9*	643.9642	4^-	257.1075	6^-	E2	Mult.: M1,E2 from conversion data. ΔJ rules out M1.
x388.250 *9*	0.37 *3*						
388.846 *12*	0.25 *3*	579.131	$(2,3)^+$	190.2614	$(3)^+$		
391.390 *7*	2.44 *5*	451.4250	$(3)^+$	60.0297	$(3)^+$	M1,E2	
393.539 *9*	0.43 *4*	684.504	$(2,3)^-$	290.9669	$(2)^+$		
x393.946 *8*	1.66 *10*						
402.482 *7*	1.47 *6*	579.131	$(2,3)^+$	176.6400	$(1)^+$		
402.883 *12*	0.37 *4*	693.838	$(2,3,4^+)$	290.9669	$(2)^+$		
x405.311 *8*	0.92 *8*						
405.473 *7*	1.88 *8*	976.310	$3^-,4^-$	570.8266	4^-		
x406.688 *9*	3.50 *18*						
407.51 *4*	0.84 *11*	584.1804	$(2,3)^+$	176.6400	$(1)^+$		
408.56 *6*	0.35 *8*	948.138	$2^-,3^-,4^-$	539.657	$(3,4,5)^+$		
410.37 *6*	0.36 *10*	584.1804	$(2,3)^+$	173.7942	$(2,3)^+$		
x410.73 *7*	0.32 *11*						
412.444 *8*	1.64 *8*	621.997	$(2,3,4,5)^+$	209.5458	$(4,5)^+$		
x414.334 *13*	0.81 *6*						
x414.91 & *5*	0.18 *4*						
417.263 *18*	2.85 *17*	688.626	$(4)^+$	271.3489	$(2,3)^+$	M1,E2	
421.054 *8*	1.84 *15*	991.882	$4^-,5^-$	570.8266	4^-		
x421.890 *9*	0.64 *4*						

$^{134}_{55}Cs_{79}$-7

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.
422.479 *8*	0.65 *12*	693.838	(2,3,4$^+$)	271.3489	(2,3)$^+$	
426.265 *11*	1.16 *13*	880.349	(3$^+$,4$^+$)	454.0876	3$^+$,4$^+$	
427.075 *20*	0.19 *3*	1142.861	(2,3,4)$^-$	715.823	(2,3)$^-$	
x429.738 *8*	2.82 *9*					M1,E2
430.66 *4*	0.22 *3*	701.9999	3$^-$,4$^-$	271.3489	(2,3)$^+$	
x431.79& *5*	0.19 *3*					
432.583 *16*	0.59 *4*	1254.198	3$^-$,4$^-$	821.605	(2,3,4$^+$)	
434.359 *8*	2.23 *7*	701.9999	3$^-$,4$^-$	267.6618	4$^-$,5$^-$	
x435.97 *6*	0.14 *3*					
438.990 *8*	4.01 *8*	450.2381	5$^-$	11.2442	5$^+$	
442.833 *7*	8.73 *18*	454.0876	3$^+$,4$^+$	11.2442	5$^+$	M1,E2
444.440 *7*	3.76 *8*	1088.423	(3,4)$^-$	643.9642	4$^-$	M1,E2
450.18 *5*	4.6 *6*	450.2381	5$^-$	0.0	4$^+$	E1
450.36 *5*	21.3 *5*	643.9642	4$^-$	193.6162	4$^-$	M1,E2
451.413 *8*	4.02 *16*	451.4250	(3)$^+$	0.0	4$^+$	M1,E2
454.090 *7*	2.67 *14*	454.0876	3$^+$,4$^+$	0.0	4$^+$	
456.402 *23*	0.42 *3*	1100.334	(2,3)$^-$	643.9642	4$^-$	
458.379 *26*	0.97 *4*	1142.861	(2,3,4)$^-$	684.504	(2,3)$^-$	
x458.950 *9*	1.42 *7*					
x459.27& *4*	0.41 *7*					
x459.48& *3*	0.28 *8*					
461.180 *8*	2.86 *20*	912.608	3$^+$,4$^+$	451.4250	(3)$^+$	M1,E2
x461.96& *4*	0.17 *5*					
462.726 *21*	0.31 *5*	839.813	3$^-$,4$^-$	377.1021	4$^+$	
x463.736& *15*	0.28 *3*					
x464.106& *19*	0.23 *3*					
464.486 *8*	3.13 *25*	948.138	2$^-$,3$^-$,4$^-$	483.6574	(3,4)$^-$	M1,E2
465.938 *13*	0.37 *4*	916.175	3$^-$,4$^-$	450.2381	5$^-$	
467.565 *9*	0.79 *10*	643.9642	4$^-$	176.4044	3$^-$,4$^-$	
x469.717 *24*	0.26 *2*					
x470.491 *12*	0.35 *7*					
x474.466 *22*	0.60 *7*					
x475.830 *18*	0.26 *3*					
479.082 *20*	0.26 *3*	688.626	(4)$^+$	209.5458	(4,5)$^+$	
479.648 *16*	0.35 *10*	539.657	(3,4,5)$^+$	60.0297	(3)$^+$	
x481.599& *21*	0.25 *2*					
x481.959& *14*	0.40 *8*					
x482.930 *20*	0.24 *4*					
x484.67 *16*	0.38 *13*					
485.055 *24*	2.07 *13*	752.7029	4$^-$	267.6618	4$^-$,5$^-$	M1,E2
x485.319 *29*	0.43 *7*					

$^{134}_{55}Cs_{79}$-8

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.
x487.021 [&] 26	0.34 6					
487.385 8	3.21 10	937.630	(4)$^-$	450.2381	5$^-$	M1,E2
x487.851 [&] 17	0.41 4					
x489.189 14	3.19 7					M1,E2
490.838 16	0.32 5	688.626	(4)$^+$	197.7817	(2)$^+$	
491.593 11	0.81 10	502.8411	(3,4)$^+$	11.2442	5$^+$	
x494.174 [&] 19	0.22 3					
495.605 11	2.11 7	752.7029	4$^-$	257.1075	6$^-$	
x497.089 12	0.48 6					
x499.734 9	0.27 3					
x501.150 27	0.61 14					
502.836 8	6.98 14	502.8411	(3,4)$^+$	0.0	4$^+$	M1,E2
503.577 17	1.57 8	693.838	(2,3,4$^+$)	190.2614	(3)$^+$	
504.23 [de] 4	0.52 [d] 6	701.9999	3$^-$,4$^-$	197.7817	(2)$^+$	
504.23 [d] 4	0.52 [d] 6	1088.423	(3,4)$^-$	584.1804	(2,3)$^+$	
508.076 9	3.94 16	519.3217	(3,4)$^+$	11.2442	5$^+$	(M1,E2) [a]
508.372 9	3.64 18	701.9999	3$^-$,4$^-$	193.6162	4$^-$	(M1,E2) [a]
510.793 9	8.9 8	570.8266	4$^-$	60.0297	(3)$^+$	
x513.315 27	1.00 17					
514.832 11	0.73 22	688.626	(4)$^+$	173.7942	(2,3)$^+$	
x515.49 3	0.51 5					
517.60 4	1.9 4	1088.423	(3,4)$^-$	570.8266	4$^-$	
518.024 30	0.59 10	715.823	(2,3)$^-$	197.7817	(2)$^+$	
519.087 10	3.76 11	579.131	(2,3)$^+$	60.0297	(3)$^+$	M1,E2 [a]
519.337 9	5.92 24	519.3217	(3,4)$^+$	0.0	4$^+$	M1,E2 [a]
520.054 14	0.65 6	693.838	(2,3,4$^+$)	173.7942	(2,3)$^+$	
522.209 9	1.19 13	715.823	(2,3)$^-$	193.6162	4$^-$	
x523.59 6	0.48 10					
524.146 9	6.5 11	584.1804	(2,3)$^+$	60.0297	(3)$^+$	M1,E2
x525.23 4	0.86 9					
525.598 11	9.1 11	701.9999	3$^-$,4$^-$	176.4044	3$^-$,4$^-$	M1,E2
526.083 9	2.2 5	976.310	3$^-$,4$^-$	450.2381	5$^-$	M1,E2
528.423 11	5.3 6	539.657	(3,4,5)$^+$	11.2442	5$^+$	M1,E2
529.505 20	13.2 20	1100.334	(2,3)$^-$	570.8266	4$^-$	M1,E2
529.890 11	2.3 8	801.253	(1$^+$,2,3,4$^+$)	271.3489	(2,3)$^+$	
530.655 21	1.37 17	821.605	(2,3,4$^+$)	290.9669	(2)$^+$	
x531.055 15	0.71 15					
531.743 16	1.37 18	741.277	(3$^+$,4)	209.5458	(4,5)$^+$	
x532.351 [&] 29	0.31 9					
x532.94 [&] 5	0.26 6					
x533.411 13	0.98 27					

$^{134}_{55}Cs_{79}$-9

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ †	I_γ ‡ b	E_i(level)	J_i^π	E_f	J_f^π	Mult.	Comments
x535.500 & 19	0.40 20						
538.405 22	1.22 18	1254.198	3^-,4^-	715.823	$(2,3)^-$		
539.413 13	12.1 13	715.823	$(2,3)^-$	176.4044	3^-,4^-	M1,E2	
540.692 9	4.6 8	1043.523	$(4)^+$	502.8411	$(3,4)^+$	M1,E2	
x541.392 25	0.85 12						
541.641 26	1.25 24	991.882	4^-,5^-	450.2381	5^-		
x543.65 & 5	0.33 4						
x544.663 & 25	0.54 7						
x546.047 12	0.70 7						
x547.256 22	1.11 18						
x547.460 24	2.19 29						
x548.946 & 18	0.32 5						
x549.891 & 14	0.53 8						
550.322 12	0.77 15	1266.168	$(3^-,4)$	715.823	$(2,3)^-$		
554.641 10	6.4 10	937.630	$(4)^-$	382.9834	6^-	(E2)	Mult.: M1,E2 from conversion data. ΔJ rules out M1.
x555.940 12	1.02 25						
x557.743 10	4.2 7						
558.383 24	0.36 14	941.343	(4^-)	382.9834	6^-		
559.081 10	2.8 5	752.7029	4^-	193.6162	4^-		
559.848 16	0.62 11	1043.523	$(4)^+$	483.6574	$(3,4)^-$		
x560.785 12	0.95 18						
561.994 25	3.5 5	621.997	$(2,3,4,5)^+$	60.0297	$(3)^+$	M1,E2	
x562.475 14	1.6 3						
564.028 27	1.17 3	831.684	4^-,5^-	267.6618	4^-,5^-	(M1,E2) a	
564.344 18	0.91 27	835.714	$(2^+,3,4,5^+)$	271.3489	$(2,3)^+$	(M1,E2) a	
566.904 23	0.44 9	801.253	$(1^+,2,3,4^+)$	234.3341	$(3)^+$		
567.479 20	1.21 20	741.277	$(3^+,4)$	173.7942	$(2,3)^+$		
x568.336 13	0.83 25						
x569.889 18	2.8 3					(M1,E2)	
570.826 10	5.3 10	570.8266	4^-	0.0	4^+	(E1)	
x572.120 & 23	0.36 4						
574.581 10	1.80 22	831.684	4^-,5^-	257.1075	6^-		
576.289 11	2.6 4	752.7029	4^-	176.4044	3^-,4^-	M1,E2	
x578.685 & 21	0.37 9						
579.127 27	0.93 8	579.131	$(2,3)^+$	0.0	4^+		
x582.25 6	0.51 26						
x582.412 16	0.80 5						
584.183 10	1.87 26	584.1804	$(2,3)^+$	0.0	4^+		
x586.059 12	0.86 10						
587.30 3	0.62 6	821.605	$(2,3,4^+)$	234.3341	$(3)^+$		
x587.557 23	0.87 20						
x588.99 4	0.49 9						

$^{134}_{55}Cs_{79}$-10

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡b]	E_i(level)	J_i^π	E_f	J_f^π	Mult.
[x]589.283 *14*	0.96 *8*					
591.678 *20*	1.43 *17*	1162.508	$(3^-,4)$	570.8266	4^-	
[x]592.374 *16*	0.78 *13*					
593.247 *23*	0.38 *11*	1043.523	$(4)^+$	450.2381	5^-	
[x]594.551 *12*	2.8 *4*					
[x]598.156 *24*	0.81 *8*					
601.333 *24*	0.85 *18*	835.714	$(2^+,3,4,5^+)$	234.3341	$(3)^+$	(M1,E2)
601.77 *4*	2.36 *21*	613.021	$(4,5)^-$	11.2442	5^+	
603.448 *12*	2.7 *3*	801.253	$(1^+,2,3,4^+)$	197.7817	$(2)^+$	
[x]605.39 *4*	1.1 *5*					
[x]609.95 *4*	0.21 *4*					
610.899 *12*	2.25 *16*	1094.553	$(2)^-$	483.6574	$(3,4)^-$	
[x]611.805 *28*	0.32 *4*					
613.026 *15*	0.79 *5*	613.021	$(4,5)^-$	0.0	4^+	
[x]613.987 *12*	1.56 *6*					
614.801 *13*	1.07 *5*	991.882	$4^-,5^-$	377.1021	4^+	
[x]620.89 *5*	0.45 *9*					
[x]622.060 *10*	8.87 *18*					M1,E2
623.838 *16*	1.68 *12*	821.605	$(2,3,4^+)$	197.7817	$(2)^+$	
[x]627.12 *5*	0.62 *12*					
[x]627.523 *28*	0.53 *7*					
628.586 *10*	3.8 *4*	688.626	$(4)^+$	60.0297	$(3)^+$	
[x]630.36[&] *5*	0.33 *6*					
[x]631.298 *12*	1.67 *24*					
[x]633.161 *12*	2.0 *4*					
633.807 *11*	4.1 *7*	693.838	$(2,3,4^+)$	60.0297	$(3)^+$	
[x]637.139 *20*	0.57 *5*					
[x]638.028 *12*	5.6 *5*					
[x]639.166[&] *16*	0.49 *4*					
[x]640.126 *18*	0.38 *4*					
641.956 *26*	0.49 *14*	701.9999	$3^-,4^-$	60.0297	$(3)^+$	
[x]644.10 *4*	0.43 *7*					
644.96[de] *4*	1.10[d] *13*	821.605	$(2,3,4^+)$	176.6400	$(1)^+$	
644.96[de] *4*	1.10[d] *13*	912.608	$3^+,4^+$	267.6618	$4^-,5^-$	
645.450 *14*	4.3 *6*	835.714	$(2^+,3,4,5^+)$	190.2614	$(3)^+$	
646.193 *12*	4.38 *18*	839.813	$3^-,4^-$	193.6162	4^-	
648.491 *13*	7.86 *24*	916.175	$3^-,4^-$	267.6618	$4^-,5^-$	
659.105[de] *29*	0.71[d] *13*	835.714	$(2^+,3,4,5^+)$	176.6400	$(1)^+$	
659.105[de] *29*	0.71[d] *13*	916.175	$3^-,4^-$	257.1075	6^-	
661.92 *5*	0.77 *9*	835.714	$(2^+,3,4,5^+)$	173.7942	$(2,3)^+$	
[x]662.62 *7*	0.72 *10*					
663.343 *25*	4.9 *5*	839.813	$3^-,4^-$	176.4044	$3^-,4^-$	

$^{134}_{55}Cs_{79}$-11

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ †	I_γ ‡ b	E_i(level)	J_i^π	E_f	J_f^π
666.043 *23*	3.03 *18*	839.813	$3^-,4^-$	173.7942	$(2,3)^+$
x666.498 & *24*	1.11 *14*				
x674.19 *5*	0.48 *14*				
x674.86 *3*	0.86 *13*				
x676.212 *24*	0.75 *10*				
x677.003 *18*	1.19 *6*				
678.27 *5*	1.3 *4*	912.608	$3^+,4^+$	234.3341	$(3)^+$
x678.94 *4*	0.53 *6*				
681.262 *12*	4.3 *4*	741.277	$(3^+,4)$	60.0297	$(3)^+$
681.82 *5*	0.56 *13*	916.175	$3^-,4^-$	234.3341	$(3)^+$
682.537 *24*	1.13 *9*	880.349	$(3^+,4^+)$	197.7817	$(2)^+$
x683.12 *5*	3.8 *5*				
683.389 *28*	1.46 *22*	1254.198	$3^-,4^-$	570.8266	4^-
x685.60 *7*	0.45 *5*				
x686.868 *23*	1.15 *6*				
x687.652 *19*	0.69 *6*				
688.639 *19*	2.3 *4*	688.626	$(4)^+$	0.0	4^+
x690.595 *24*	0.63 *5*				
x692.30 *6*	0.80 *7*				
692.62 d *4*	2.57 d *10*	752.7029	4^-	60.0297	$(3)^+$
692.62 de *4*	2.57 d *10*	1142.861	$(2,3,4)^-$	450.2381	5^-
695.356 *19*	1.81 *15*	1266.168	$(3^-,4)$	570.8266	4^-
x698.13 *6*	0.99 *6*				
703.35 *4*	1.26 *10*	937.630	$(4)^-$	234.3341	$(3)^+$
x707.404 *26*	1.22 *9*				
708.35 *6*	1.3 *4*	1162.508	$(3^-,4)$	454.0876	$3^+,4^+$
708.647 *16*	7.25 *22*	976.310	$3^-,4^-$	267.6618	$4^-,5^-$
712.257 *22*	3.9 *4*	1162.508	$(3^-,4)$	450.2381	5^-
x712.767 *27*	2.34 *14*				
714.803 *22*	0.61 *10*	912.608	$3^+,4^+$	197.7817	$(2)^+$
x718.662 *12*	5.62 *28*				
x720.14 *3*	0.48 *5*				
x721.10 *5*	1.30 *21*				
722.30 *6*	2.15 *11*	912.608	$3^+,4^+$	190.2614	$(3)^+$
x723.020 *13*	2.9 *3*				
x724.31 & *4*	0.31 *14*				
726.54 *4*	0.89 *24*	1266.168	$(3^-,4)$	539.657	$(3,4,5)^+$
x727.55 *3*	0.73 *10*				
730.036 *15*	2.51 *25*	741.277	$(3^+,4)$	11.2442	5^+
x732.608 *21*	1.67 *10*				
734.73 *5*	0.75 *10*	991.882	$4^-,5^-$	257.1075	6^-
x735.80 & *10*	0.38 *9*				
x736.716 *29*	1.35 *7*				
x737.49 *3*	0.51 *7*				
738.79 *4*	0.68 *2*	912.608	$3^+,4^+$	173.7942	$(2,3)^+$
739.76 *4*	0.52 *11*	916.175	$3^-,4^-$	176.4044	$3^-,4^-$
741.272 *16*	2.8 *4*	741.277	$(3^+,4)$	0.0	4^+
741.93 *4*	0.85 *13*	976.310	$3^-,4^-$	234.3341	$(3)^+$
x744.240 *29*	1.36 *15*				
x747.87 *4*	0.70 *8*				
x748.500 *28*	1.8 *4*				
752.544 *26*	0.74 *5*	1043.523	$(4)^+$	290.9669	$(2)^+$
x753.97 & *7*	0.44 *7*				
x754.75 *7*	1.06 *17*				
x755.84 *4*	0.78 *7*				
x758.715 *22*	0.97 *8*				
761.533 *21*	1.22 *6*	821.605	$(2,3,4^+)$	60.0297	$(3)^+$
x768.21 *12*	0.59 *21*				
x769.76 *5*	1.09 *9*				
770.55 *4*	3.50 *4*	1254.198	$3^-,4^-$	483.6574	$(3,4)^-$
771.69 de *6*	0.57 d *13*	831.684	$4^-,5^-$	60.0297	$(3)^+$
771.69 d *6*	0.57 d *13*	948.138	$2^-,3^-,4^-$	176.4044	$3^-,4^-$
x775.32 *5*	2.12 *13*				
x778.10 *10*	1.10 *10*				
x780.83 *5*	2.46 *25*				
782.71 *5*	0.73 *10*	976.310	$3^-,4^-$	193.6162	4^-
x789.00 *8*	0.79 *10*				
x791.96 *7*	2.13 *11*				
x796.69 *4*	1.75 *26*				
799.90 *8*	2.01 *10*	976.310	$3^-,4^-$	176.4044	$3^-,4^-$
x806.53 *12*	0.87 *23*				
x808.80 *5*	1.04 *19*				
809.44 *5*	0.84 *13*	1100.334	$(2,3)^-$	290.9669	$(2)^+$
x811.57 & *6*	1.05 *19*				
x813.89 *7*	4.2 *3*				
x815.05 *4*	1.23 *10*				
815.92 *17*	1.52 *11*	1266.168	$(3^-,4)$	450.2381	5^-
820.733 *17*	2.80 *7*	1088.423	$(3,4)^-$	267.6618	$4^-,5^-$
823.31 *6*	0.80 *18*	1094.553	$(2)^-$	271.3489	$(2,3)^+$
x825.58 *3*	0.16 *1*				
x827.39 *4*	0.63 *10*				
x832.83 *5*	0.75 *11*				
835.74 *3*	1.33 *26*	835.714	$(2^+,3,4,5^+)$	0.0	4^+
x841.010 *15*	8.2 *4*				

$^{134}_{55}Cs_{79}$-12

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ †	I_γ ‡ b	E_i(level)	J_i^π	E_f	J_f^π
x842.483 27	2.10 19				
x845.35 8	1.6 5				
x846.73 5	0.84 19				
852.60 4	1.38 15	912.608	$3^+,4^+$	60.0297	$(3)^+$
x855.53 5	0.77 18				
860.16 8	0.94 13	1094.553	$(2)^-$	234.3341	$(3)^+$
861.71 5	2.1 4	1238.872	5^-	377.1021	4^+
x863.83 & 8	0.73 10				
869.03 7	4.6 7	880.349	$(3^+,4^+)$	11.2442	5^+
x869.56 6	1.79 23				
x870.74 6	1.15 18				
x875.89 6	0.94 11				
x876.91 4	0.9 4				
880.41 3	2.39 15	880.349	$(3^+,4^+)$	0.0	4^+
x880.59 7	3.28 23				
881.23 6	1.50 14	941.343	(4^-)	60.0297	$(3)^+$
x886.033 19	3.24 26				
x887.54 4	1.36 10				
x890.45 8	1.23 23				
x891.4 4	1.1 4				
894.54 4	3.69 15	1238.872	5^-	344.3594	7^-
894.814 d 19	3.57 d 29	1088.423	$(3,4)^-$	193.6162	4^-
894.814 d 19	3.57 d 29	1162.508	$(3^-,4)$	267.6618	$4^-,5^-$
901.31 4	1.63 13	912.608	$3^+,4^+$	11.2442	5^+
902.36 9	0.67 14	1100.334	$(2,3)^-$	197.7817	$(2)^+$
904.24 6	1.14 17	1094.553	$(2)^-$	190.2614	$(3)^+$
x905.26 4	1.94 25				
x910.633 26	4.41 13				
912.032 24	3.92 12	1088.423	$(3,4)^-$	176.4044	$3^-,4^-$
x914.43 5	1.20 26				
917.76 9	0.92 17	1094.553	$(2)^-$	176.6400	$(1)^+$
x920.08 11	0.94 17				
x921.22 13	0.85 7				
x923.10 6	1.99 26				
x923.83 5	2.68 27				
x926.71 5	3.36 17				
930.113 19	6.1 4	941.343	(4^-)	11.2442	5^+
x932.11 4	2.53 13				
x935.61 4	4.0 3				
x936.60 5	3.3 3				
x938.04 5	2.32 28				
x942.65 11	1.46 18				
x947.57 5	3.01 21				
949.31 7	0.78 24	1142.861	$(2,3,4)^-$	193.6162	4^-
x954.32 17	0.71 16				
966.454 17	6.53 13	1142.861	$(2,3,4)^-$	176.4044	$3^-,4^-$
968.85 5	1.44 17	1162.508	$(3^-,4)$	193.6162	4^-
x970.78 7	0.83 9				
x972.90 4	2.02 12				
x983.94 6	2.49 23				
986.08 5	1.85 17	1162.508	$(3^-,4)$	176.4044	$3^-,4^-$
x994.58 6	1.31 12				
998.537 23	5.10 20	1266.168	$(3^-,4)$	267.6618	$4^-,5^-$
x1004.38 5	2.22 16				
x1008.40 5	1.64 21				
x1010.52 7	1.42 13				
x1014.67 6	2.33 16				
x1019.16 11	0.90 13				
1028.36 11	0.93 14	1088.423	$(3,4)^-$	60.0297	$(3)^+$
x1032.780 29	2.8 5				
1034.31 9	1.92 14	1094.553	$(2)^-$	60.0297	$(3)^+$
x1042.66 4	3.7 4				
x1044.31 9	2.0 4				
1045.16 9	1.9 4	1238.872	5^-	193.6162	4^-
x1058.27 6	1.27 17				
1072.64 9	1.60 18	1266.168	$(3^-,4)$	193.6162	4^-
1077.811 22	6.04 18	1254.198	$3^-,4^-$	176.4044	$3^-,4^-$
x1092.20 6	1.6 3				
1102.61 9	2.0 9	1162.508	$(3^-,4)$	60.0297	$(3)^+$
x1105.50 15	1.78 27				
x1114.33 10	1.93 23				
x1118.18 5	2.70 22				
x1124.54 & 22	1.5 4				
x1125.73 11	3.83 27				
x1128.43 6	3.71 19				
x1132.34 5	2.80 17				
x1144.32 11	1.47 18				
x1177.44 9	1.60 18				
x1209.80 7	5.5 5				
x1218.86 30	2.2 4				
x1220.6 3	2.7 5				
x1234.32 15	2.1 3				
x1263.82 8	2.28 21				
x1266.59 7	3.2 4				
x1294.10 11	1.69 20				
x1321.00 4	4.81 24				

$^{134}_{55}Cs_{79}$-13

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

γ(^{134}Cs) (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Comments
[x]1462.19 *6*	6.0 *4*					
[x]1494.02 *10*	3.9 *4*					
5624.89 *6*	2.64 *27*	6891.381	$3^+,4^+$	1266.168	$(3^-,4)$	
5637.05 *5*	5.9 *6*	6891.381	$3^+,4^+$	1254.198	$3^-,4^-$	
5652.13 *13*	0.56 *6*	6891.381	$3^+,4^+$	1238.872	5^-	
5728.82 *6*	2.9 *3*	6891.381	$3^+,4^+$	1162.508	$(3^-,4)$	
5748.48 *5*	3.1 *3*	6891.381	$3^+,4^+$	1142.861	$(2,3,4)^-$	
5790.66 *5*	3.8 *4*	6891.381	$3^+,4^+$	1100.334	$(2,3)^-$	
5796.93[@] *22*	0.20 *4*	6891.381	$3^+,4^+$	1094.553	$(2)^-$	
5802.64 *6*	2.45 *25*	6891.381	$3^+,4^+$	1088.423	$(3,4)^-$	
5848.2 *5*	0.27 *3*	6891.381	$3^+,4^+$	1043.523	$(4)^+$	
5899.23 *6*	2.07 *21*	6891.381	$3^+,4^+$	991.882	$4^-,5^-$	
5914.81 *6*	1.27 *13*	6891.381	$3^+,4^+$	976.310	$3^-,4^-$	
5943.2 *4*	0.14 *2*	6891.381	$3^+,4^+$	948.138	$2^-,3^-,4^-$	
5950.14 *6*	1.16 *12*	6891.381	$3^+,4^+$	941.343	(4^-)	
5953.94[@] *23*	0.27 *7*	6891.381	$3^+,4^+$	937.630	$(4)^-$	
5974.97 *7*	1.83 *19*	6891.381	$3^+,4^+$	916.175	$3^-,4^-$	
5979.12 *10*	1.06 *11*	6891.381	$3^+,4^+$	912.608	$3^+,4^+$	
6009.7 *12*	0.026 *11*	6891.381	$3^+,4^+$	880.349	$(3^+,4^+)$	
6051.52 *10*	5.0 *5*	6891.381	$3^+,4^+$	839.813	$3^-,4^-$	
6056.5 *5*	0.71 *11*	6891.381	$3^+,4^+$	835.714	$(2^+,3,4,5^+)$	
6060.5 *11*	0.38 *9*	6891.381	$3^+,4^+$	831.684	$4^-,5^-$	
6069.3 *3*	0.22 *3*	6891.381	$3^+,4^+$	821.605	$(2,3,4^+)$	
6090.8[@] *4*	0.10 *1*	6891.381	$3^+,4^+$	801.253	$(1^+,2,3,4^+)$	Observed by 1984Ke11 only.
6138.46 *8*	1.29 *13*	6891.381	$3^+,4^+$	752.7029	4^-	
6149.83 *11*	0.64 *7*	6891.381	$3^+,4^+$	741.277	$(3^+,4)$	
6175.19 *5*	6.4 *7*	6891.381	$3^+,4^+$	715.823	$(2,3)^-$	
6189.14 *5*	3.8 *4*	6891.381	$3^+,4^+$	701.9999	$3^-,4^-$	
6198.14 *17*	0.48 *8*	6891.381	$3^+,4^+$	693.838	$(2,3,4^+)$	
6203.33 *24*	0.46 *6*	6891.381	$3^+,4^+$	688.626	$(4)^+$	
6208.4 *7*	0.083 *20*	6891.381	$3^+,4^+$	684.504	$(2,3)^-$	Observed by 1987Bo24 only.
6247.43[@] *7*	0.77 *12*	6891.381	$3^+,4^+$	643.9642	4^-	
6267.40 *20*	0.044 *13*	6891.381	$3^+,4^+$	624.0074	$(5)^-$	Observed by 1987Bo24 only.
6268.80 *19*	0.19 *2*	6891.381	$3^+,4^+$	621.997	$(2,3,4,5)^+$	
6278.3 *5*	0.058 *10*	6891.381	$3^+,4^+$	613.021	$(4,5)^-$	
6307.37 *9*	0.65 *7*	6891.381	$3^+,4^+$	584.1804	$(2,3)^+$	
6312.44[@] *11*	0.28 *7*	6891.381	$3^+,4^+$	579.131	$(2,3)^+$	
6320.29 *8*	0.94 *10*	6891.381	$3^+,4^+$	570.8266	4^-	
6350.69 *22*	0.096 *16*	6891.381	$3^+,4^+$	539.657	$(3,4,5)^+$	
6371.81 *11*	0.24 *3*	6891.381	$3^+,4^+$	519.3217	$(3,4)^+$	
6388.43 *17*	0.73 *11*	6891.381	$3^+,4^+$	502.8411	$(3,4)^+$	
6406.8 *6*	0.032 *11*	6891.381	$3^+,4^+$	483.6574	$(3,4)^-$	

$^{134}_{55}Cs_{79}$-14

^{133}Cs(n,γ) E=thermal 1987Bo24 (continued)

$\gamma(^{134}Cs)$ (continued)

E_γ [†]	I_γ [‡ b]	E_i(level)	J_i^π	E_f	J_f^π	Comments
6437.64 [@] *14*	0.24 *7*	6891.381	$3^+,4^+$	454.0876	$3^+,4^+$	
6439.74 *5*	1.68 *17*	6891.381	$3^+,4^+$	451.4250	$(3)^+$	
6514.07 *6*	0.93 *10*	6891.381	$3^+,4^+$	377.1021	4^+	
6602.4 *8*	0.030 *15*	6891.381	$3^+,4^+$	290.9669	$(2)^+$	
6619.76 *7*	0.30 *8*	6891.381	$3^+,4^+$	271.3489	$(2,3)^+$	
6656.94 *8*	0.58 *6*	6891.381	$3^+,4^+$	234.3341	$(3)^+$	
6681.1 *7*	0.087 *13*	6891.381	$3^+,4^+$	209.5458	$(4,5)^+$	
6693.90 *21*	0.39 *8*	6891.381	$3^+,4^+$	197.7817	$(2)^+$	
6697.61 *4*	5.4 *6*	6891.381	$3^+,4^+$	193.6162	4^-	
6700.6 *8*	0.52 *26*	6891.381	$3^+,4^+$	190.2614	$(3)^+$	E_γ: from 1987Bo24.
6714.86 *9*	2.26 *23*	6891.381	$3^+,4^+$	176.4044	$3^-,4^-$	
6717.5 *6*	0.46 *14*	6891.381	$3^+,4^+$	173.7942	$(2,3)^+$	
6831.30 *5*	0.93 *10*	6891.381	$3^+,4^+$	60.0297	$(3)^+$	
6879.98 *9*	0.38 *4*	6891.381	$3^+,4^+$	11.2442	5^+	
6891.39 *7*	0.52 *6*	6891.381	$3^+,4^+$	0.0	4^+	

[†] From 1987Bo24; primary transitions are from 1986Ko31.
[‡] Photons per 1000 n-captures. Systematic error of 13% is not included.
[#] From 1989Du03.
[@] From 1984Ke11.
[&] Transition may be from ^{134}Cs(n,γ), too.
[a] From ce data for unresolved transitions (1987Bo24).
[b] For intensity per 100 neutron captures, multiply by 0.1.
[c] Total theoretical internal conversion coefficients, calculated using the BrIcc code (2008Ki07) with Frozen orbital approximation based on γ-ray energies, assigned multipolarities, and mixing ratios, unless otherwise specified.
[d] Multiply placed with undivided intensity.
[e] Placement of transition in the level scheme is uncertain.
[x] γ ray not placed in level scheme.

$^{134}_{55}Cs_{79}$-15

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme

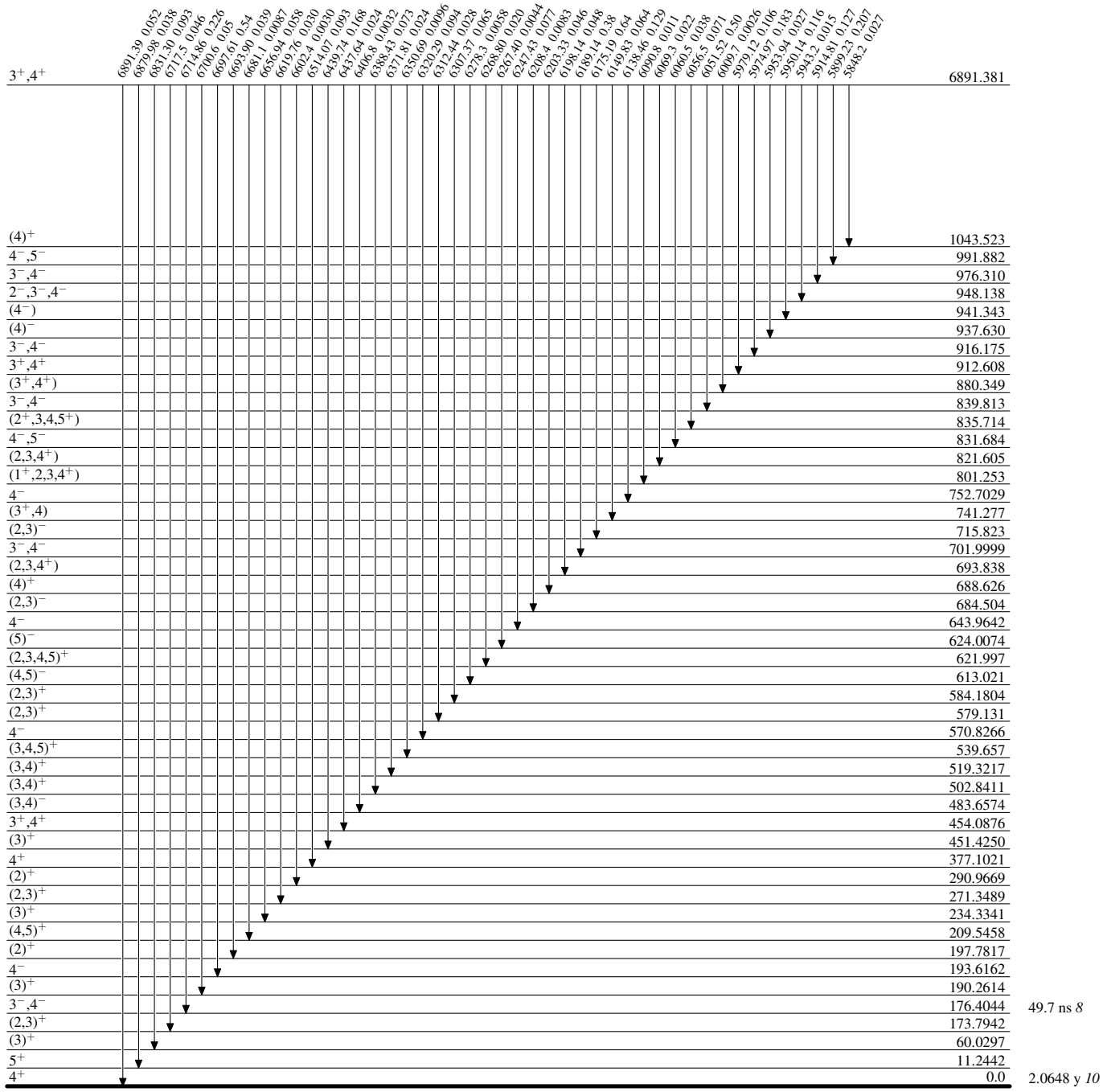
Intensities: I_γ per 100 neutron captures

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$

$I_\gamma < 10\% \times I_\gamma^{max}$

$I_\gamma > 10\% \times I_\gamma^{max}$



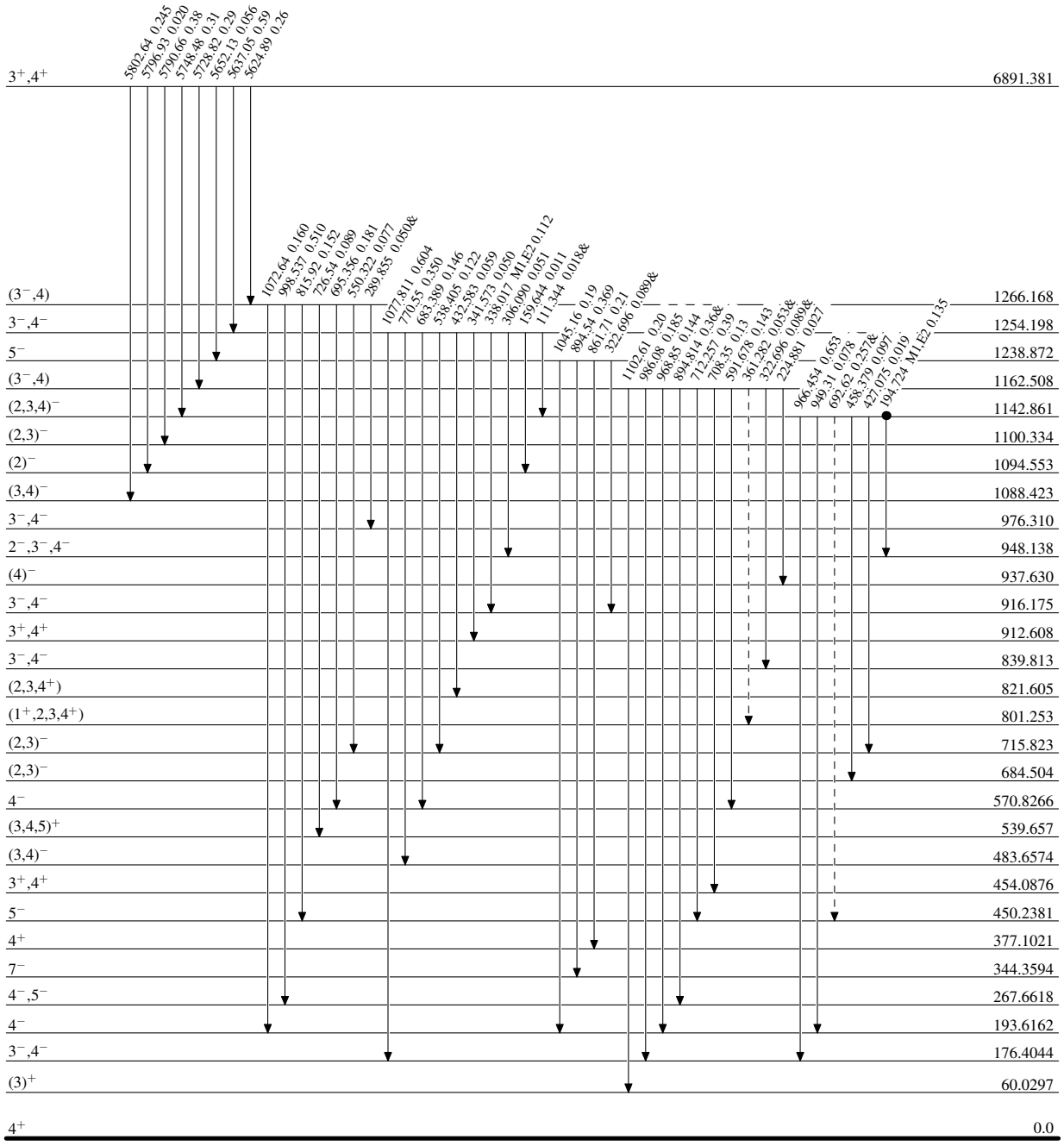
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence

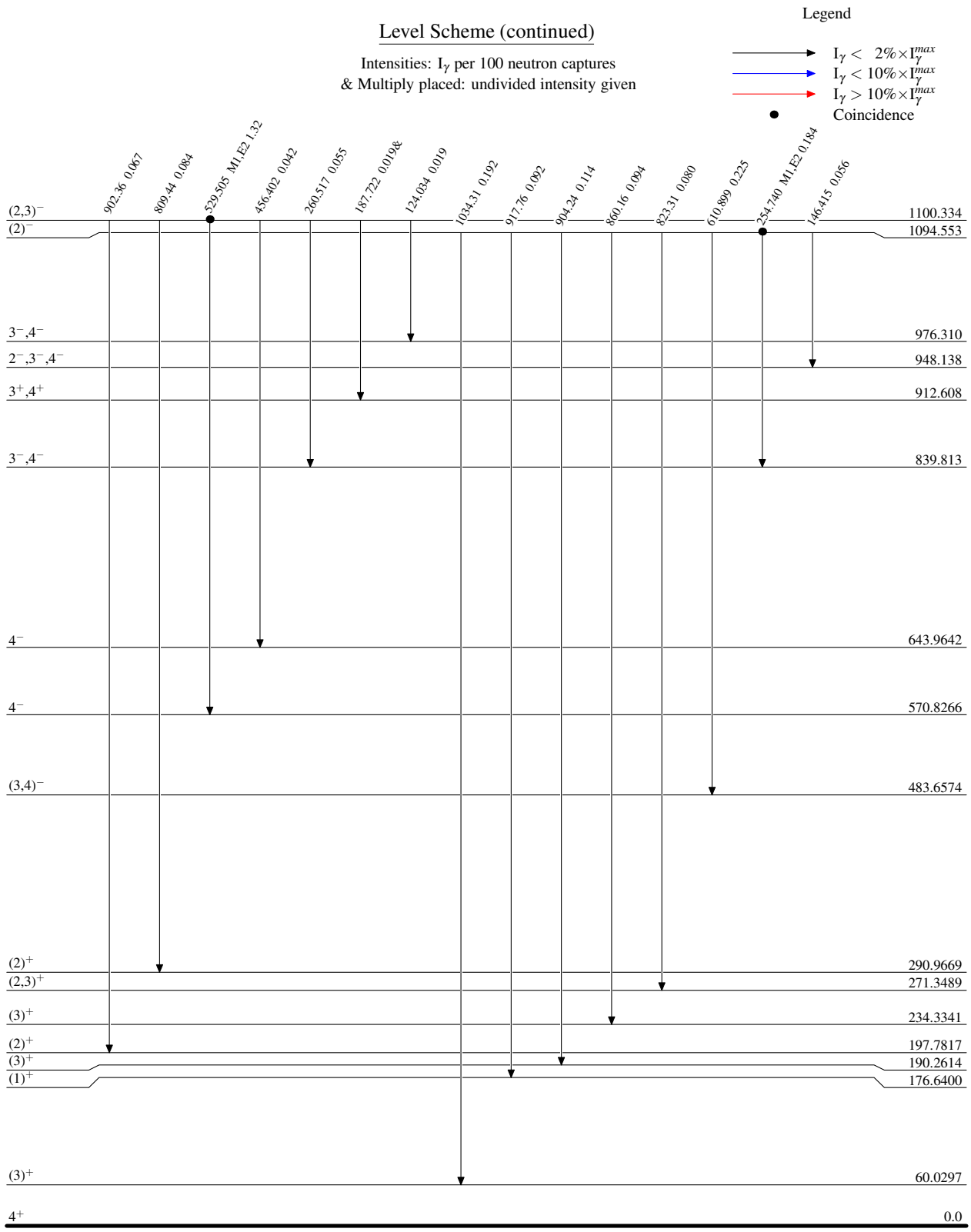


$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



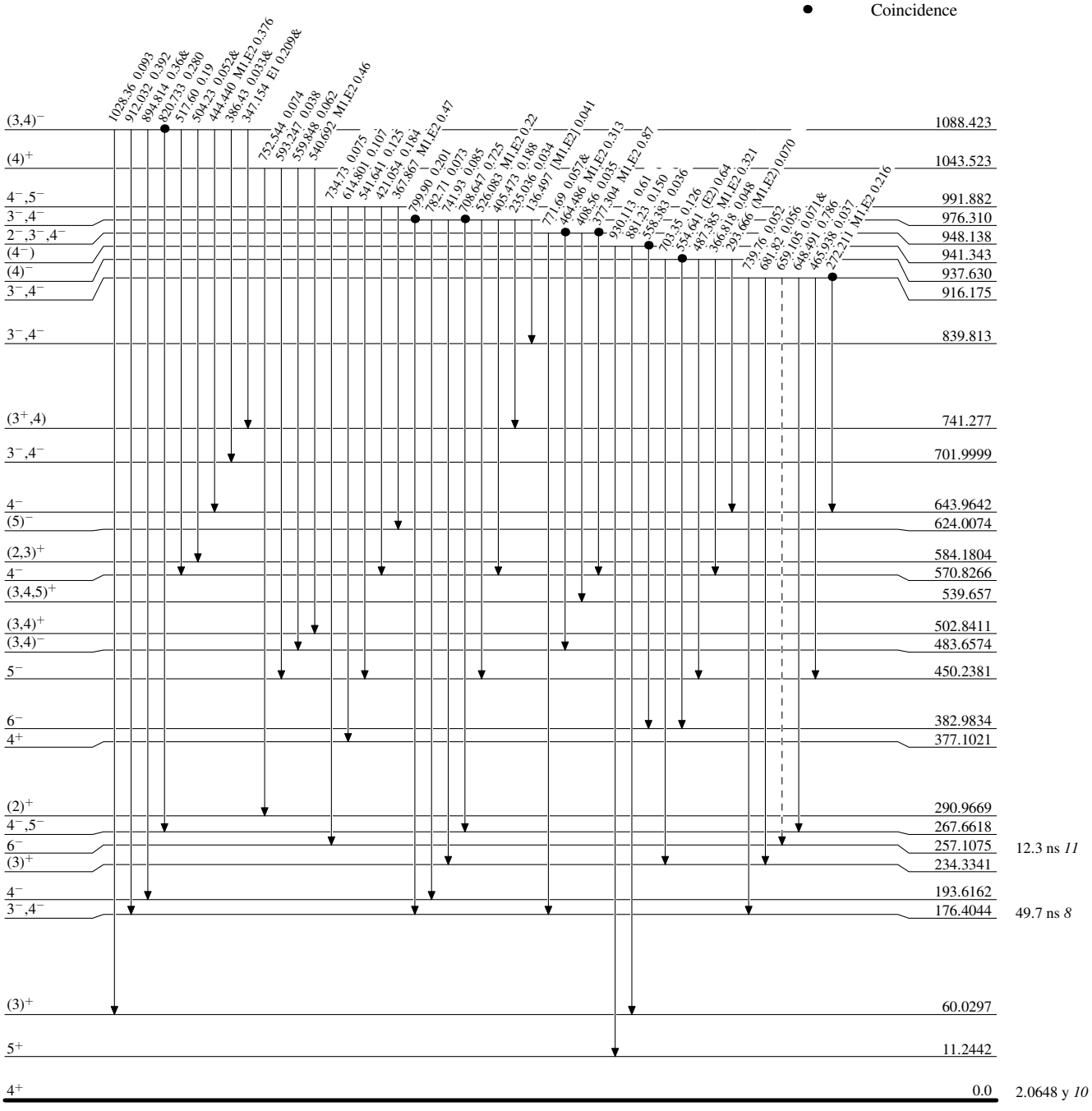
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)
Coincidence

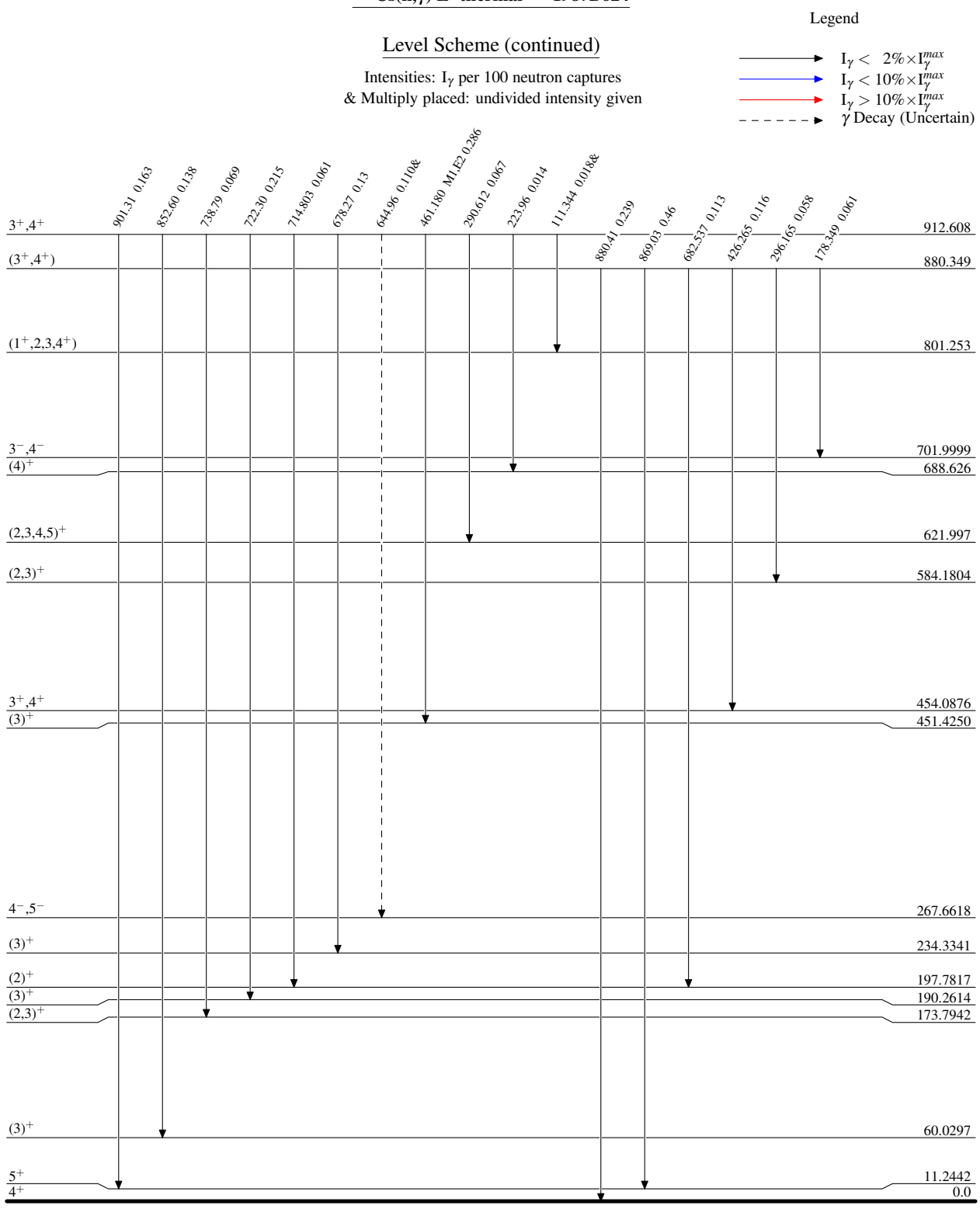


$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

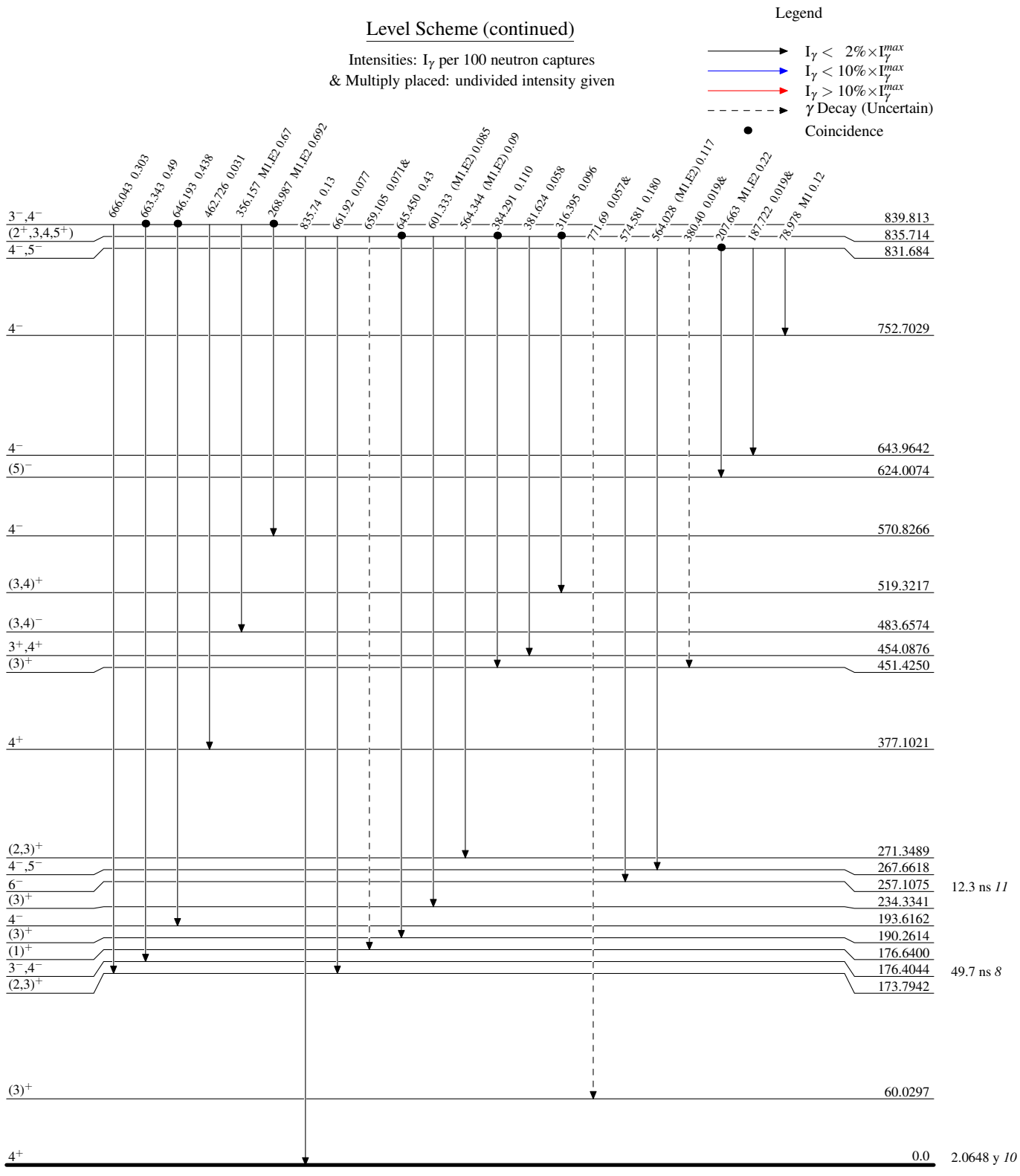


$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given



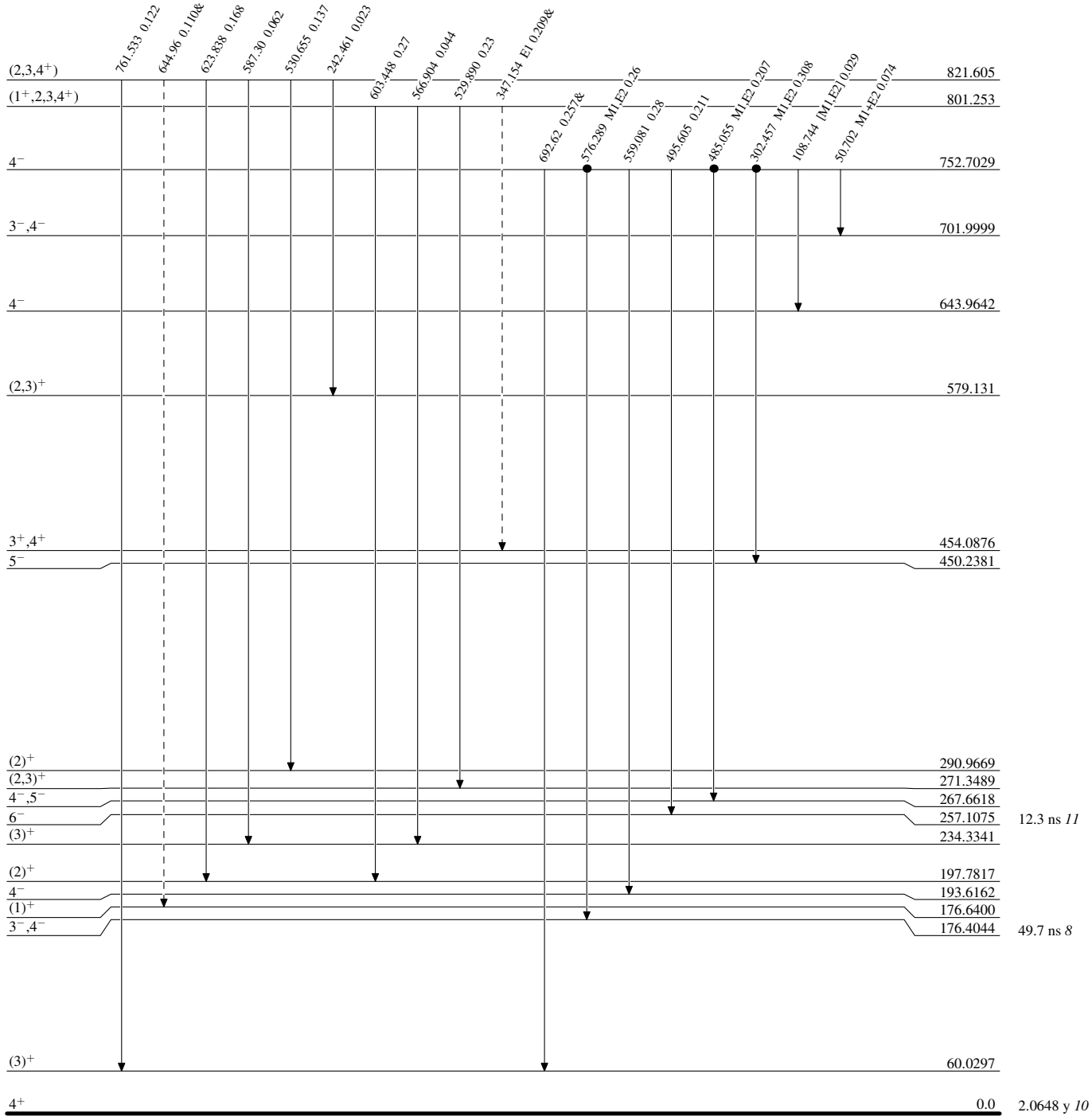
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence



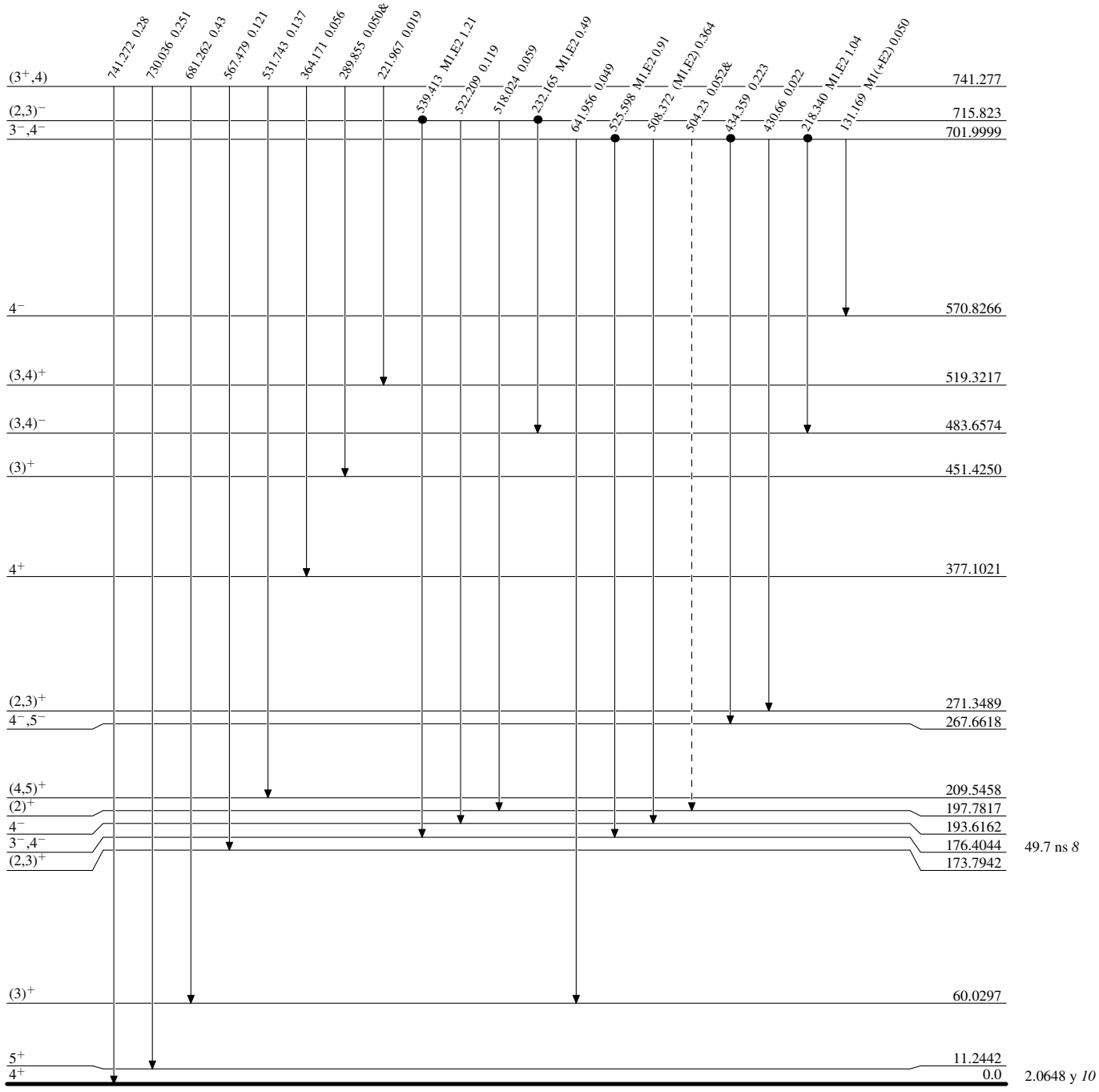
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)
- Coincidence



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^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
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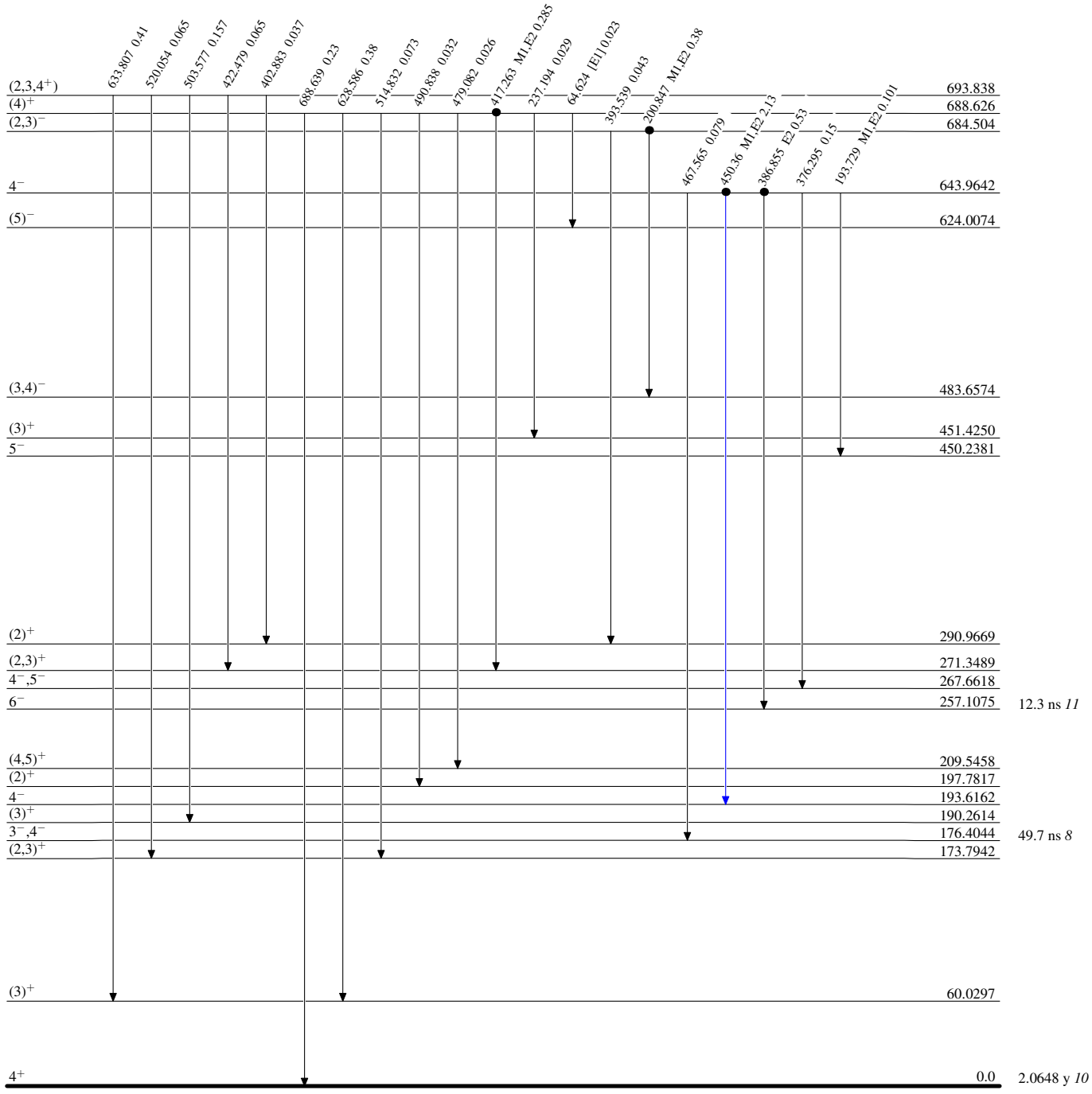
Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



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^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

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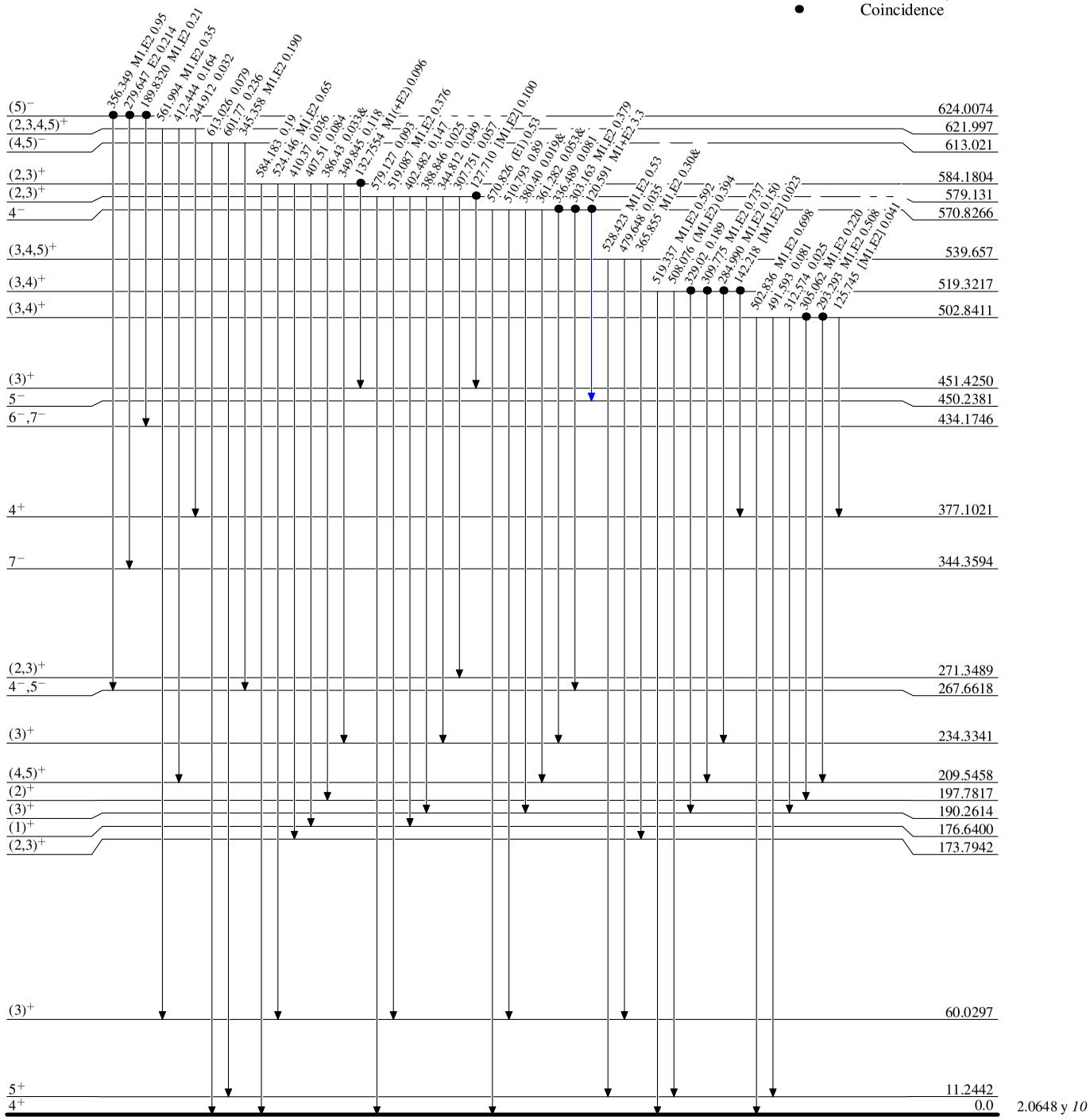
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



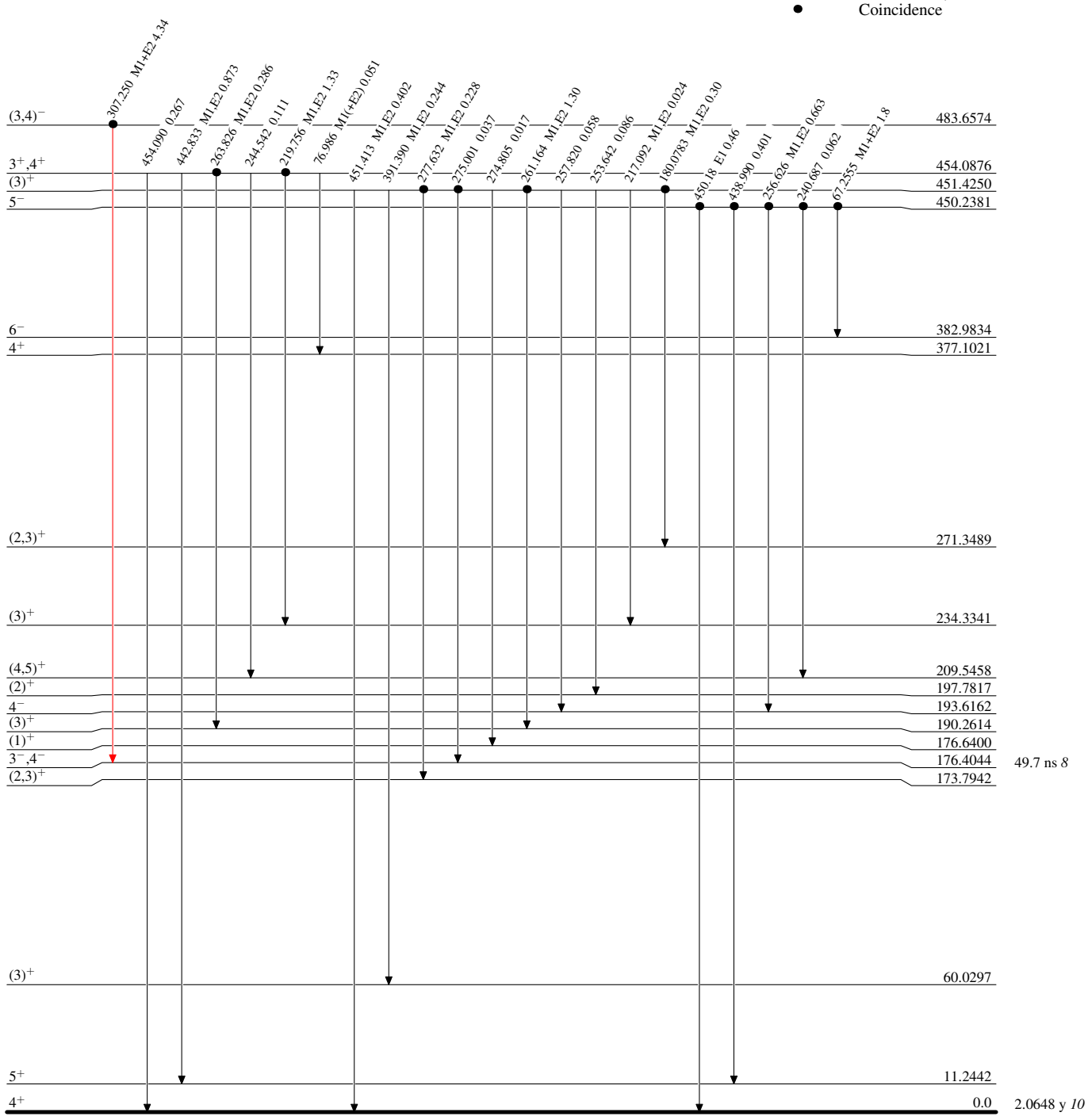
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



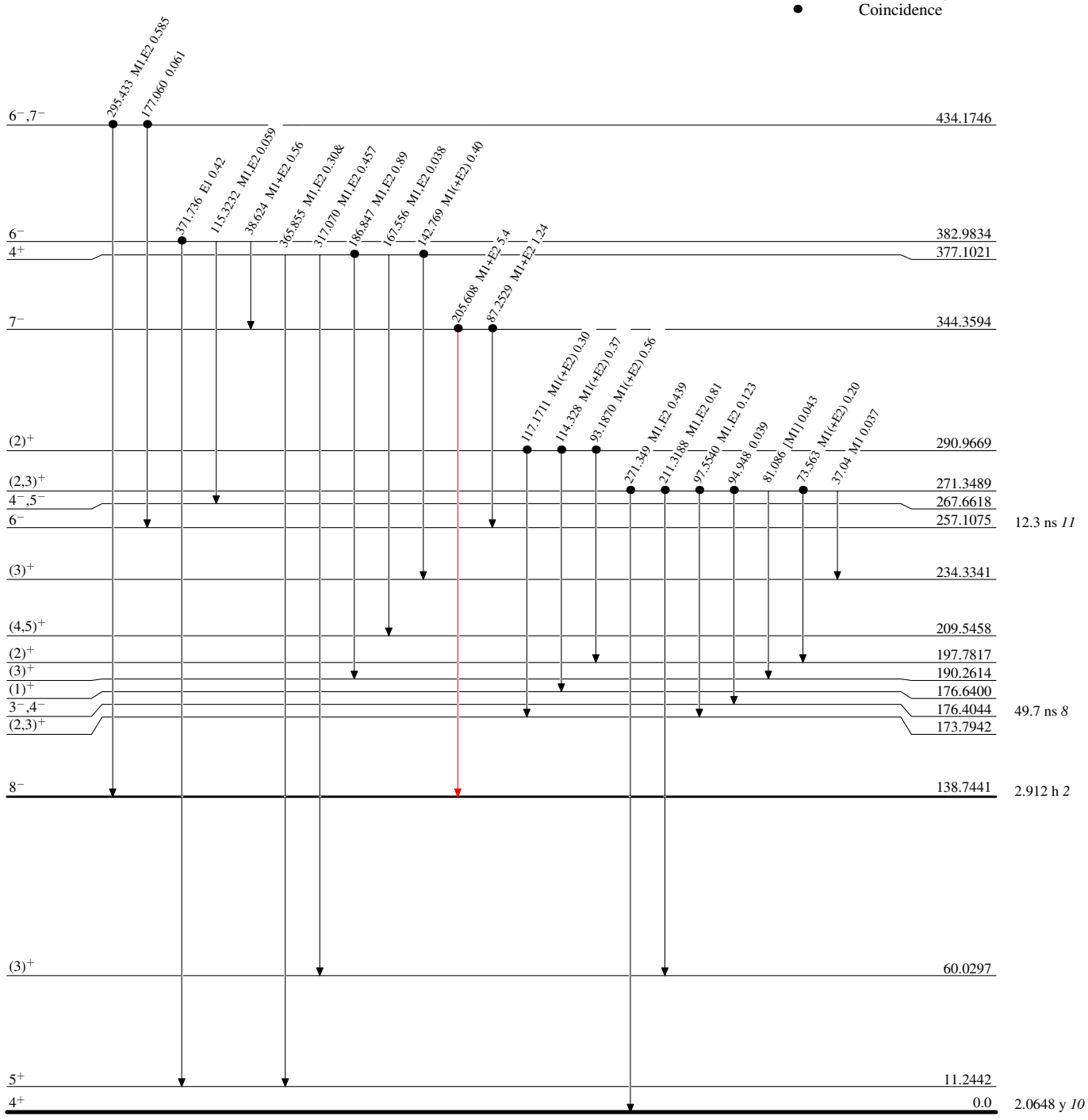
$^{134}_{55}Cs_{79}$

^{133}Cs(n,γ) E=thermal 1987Bo24

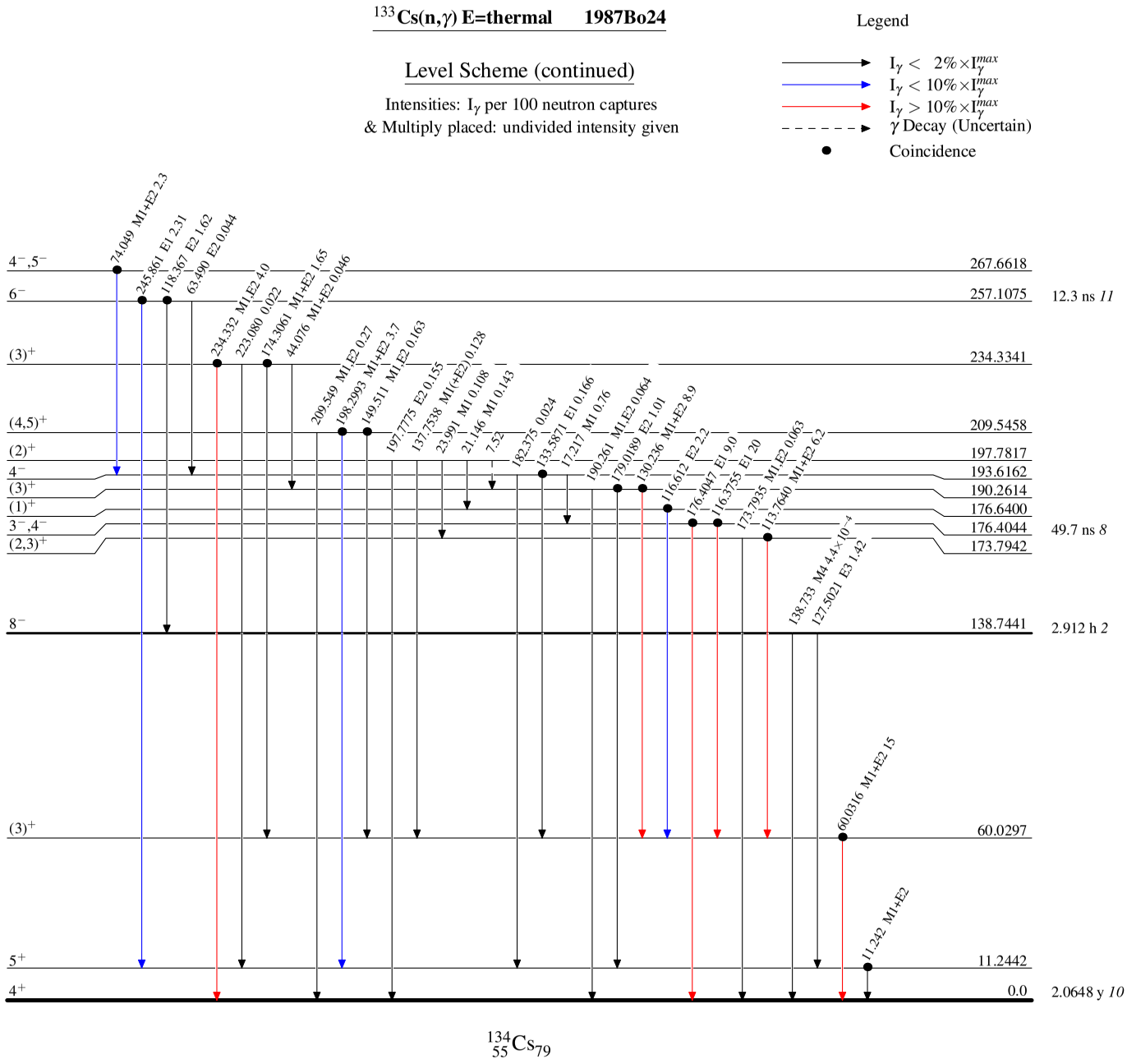
Level Scheme (continued)

Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given

Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
Coincidence



$^{134}_{55}Cs_{79}$


^{133}Cs(n,γ) E=thermal 1987Bo24
Level Scheme (continued)
Intensities: I_γ per 100 neutron captures
& Multiply placed: undivided intensity given
Legend
$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)
Coincidence
4⁻,5⁻ 267.6618
6⁻ 257.1075 12.3 ns 11
(3)⁺ 234.3341
(4,5)⁺ 209.5458
(2)⁺ 197.7817
4⁻ 193.6162
(3)⁺ 190.2614
(1)⁺ 176.6400
3⁻,4⁻ 176.4044 49.7 ns 8
(2,3)⁺ 173.7942
8⁻ 138.7441 2.912 h 2
(3)⁺ 60.0297
5⁺ 11.2442
4⁺ 0.0 2.0648 y 10
74.049 M1+E2 2.3
245.861 E1 2.31
118.367 E2 1.62
63.490 E2 0.044
234.332 M1,E2 4.0
223.080 0.022
174.3061 M1+E2 1.65
44.076 M1+E2 0.046
209.549 M1,E2 0.27
198.2993 M1+E2 3.7
149.511 M1,E2 0.163
197.7775 E2 0.155
137.7538 M1(+E2) 0.128
23.991 M1 0.108
21.146 M1 0.143
7.52
182.375 0.024
133.5871 E1 0.166
17.217 M1 0.76
190.261 M1,E2 0.064
179.0189 E2 1.01
130.236 M1+E2 8.9
116.612 E2 2.2
176.4047 E1 9.0
116.3755 E1 20
173.7935 M1,E2 0.063
113.7640 M1+E2 6.2
138.733 M4 4.4×10⁻⁴
127.5021 E3 1.42
60.0316 M1+E2 15
11.242 M1+E2
$^{134}_{55}Cs_{79}$